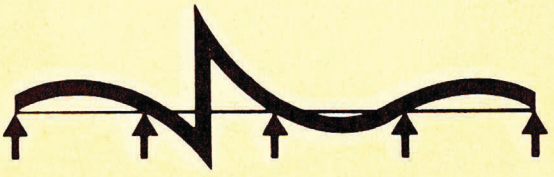
MOMENTS SHEARS and REACTIONS

FOR CONTINUOUS HIGHWAY BRIDGES



AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

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FOR CONTINUOUS HIGHWAY BRIDGES

AMERICAN INSTITUTE OF STEEL CONSTRUCTION
101 PARK AVENUE, NEW YORK, N. Y. 10017

Foreword

ENGINEERING considerations frequently lead to the adoption of continuous structures as the most efficient solution of a design problem, but analysis of such structures often becomes considerably more time-consuming than that of simple structures. This is particularly true in the case of highway bridge spans of lengths such that **TRUCK** rather than **LANE** live loading governs the design. The tables contained herein were prepared to assist the designer of continuous beams and girders in general, and continuous highway beam bridges in particular, by reducing the time required for analysis.

Preface to the Second Revised Printing

Although this booklet was first printed in 1959, it still provides useful information, especially for checking the results of computer-aided analysis. The text was revised to refer to the provisions of the 1983 AASHTO Specification. The example of a cover-plated beam was removed. Continuous beams can now be designed without cover plates in accordance with the 1986 AASHTO *Guide Specification for Alternate Load Factor Design Procedures for Steel Beam Bridges Using Braced Compact Sections.*

June 1986 **American Institute of Steel Construction**

Continuous Highway Bridge Tables

IN Tables 2.0 to 4.7, inclusive, maximum moments, shears and reactions are given for the 456 continuous highway bridge spans shown in Table 1. The span lengths included encompass the full range of beam and usual plate girder bridges.

All of the 3 and 4 span structures are symmetrical about their center line. Interior spans are equal to or greater than the corresponding exterior spans, the ratio of interior to exterior span length being designated as N.

Intervals between successive span lengths and values of N are small enough to permit linear interpolation without significant error.

Design Load

The moments, shears and reactions tabulated are those produced by one lane of AASHO HS20-44 live loading. They correspond to the values given for simple spans on page 273 of the 1961 AASHO Standard Specifications for Highway Bridges. Values are determined by standard **TRUCK** loading (one H-S truck) except those below the heavy horizontal lines in some columns, which are governed by standard **LANE** loading.

That proportion of the moments, shears and reactions given in Tables 2.0 to 4.7 for which individual beams and their supports are to be designed, is governed by the provisions of the 1961 AASHO Specification, Sect. 1.3.1. For the proportioning of moments, the applicable fraction given in paragraph (b) of that section will govern. Note that these fractions apply to **WHEEL** loads rather than **AXLE** loads; hence, the values listed in Tables 2.0 to 4.7 should be multiplied by one-half of the given fraction.

To compute reactions, and shears at reaction points, pursuant with the provisions of paragraph (a), for longitudinal beams when **TRUCK** loading governs, multiply the values given in Tables 2.0 to 4.7 by one-half the applicable fraction given in paragraph (b) and add, for the effect of the axle load adjacent to the support, the value P, computed as follows:

When S, the average longitudinal beam spacing in feet, is less than 6 ft.,

$$P = 16(2 - \frac{4}{S} - Q)^*$$

When S is greater than 6 ft.,

$$P = 16(3 - \frac{10}{S} - Q)^*$$

Q being the applicable fraction as given in 1.3.1 (b) and P being expressed in kips.

Impact coefficients I, II, III, IV and V are computed from the formula given in Sect. 1.2.12 of the 1961 AASHO Specification. The computed live load moments, shears and reactions are multiplied by the appropriate coefficients (indicated at the bottom of the columns in Tables 2.0 to 4.7 to which they apply) to obtain the allowance for impact loading.

Coefficients for computing moments, shears and reactions produced by uniform dead load w, distributed over the entire length of the structure, are given at the foot of Tables 2.0 to 4.7. **Note that the value for L to be used in computing dead load values in all cases is that for the shorter spans.**

All values given in Tables 2.0 to 4.7 were determined on the basis of a constant moment of inertia throughout the entire length of the structure.

* Disregard this term when computed P is negative.

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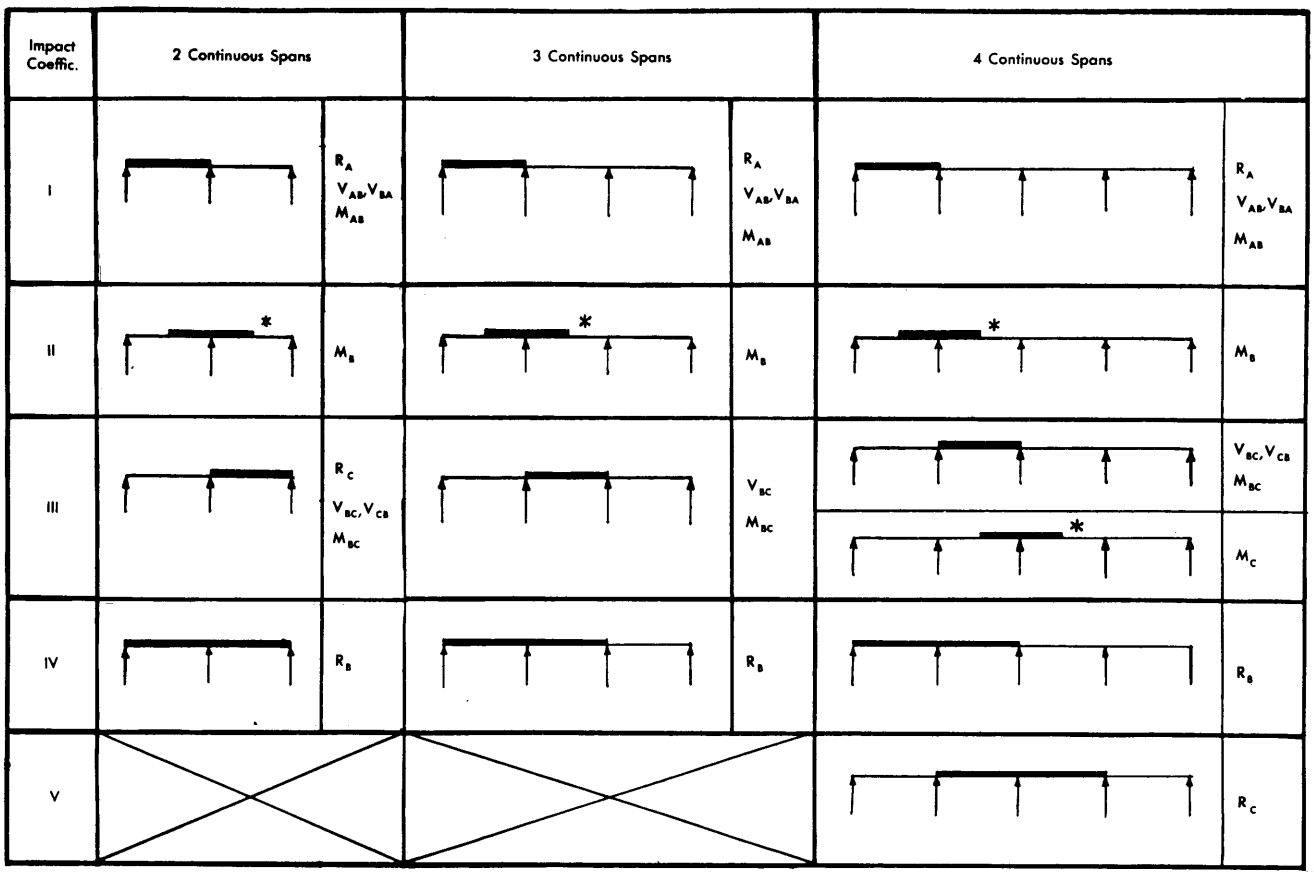
TABLE SHOWING SPAN LENGTHS USED AS BASIS FOR IMPACT COEFFICIENTS

(See 1961 AASHO Specification, Sect. 1.2.12)



* Indicates that the "length" is the computed average of adjacent loaded spans

Effect of Variable Moment of Inertia

In highway spans, when the total negative moment at the interior supports of continuous beams is greater than the total positive moment, maximum economy may sometimes be achieved by adding partial length cover plates to the rolled beam to assist in resisting the negative moment. On longer spans, where splices will be required anyway, the use of heavier rolled shapes in the region of interior supports may prove desirable. An increase in moment of inertia in the vicinity of the interior supports produces an increase in the maximum negative moments and interior reactions.

For a uniformly loaded continuous beam of two equal spans, cover plated for one-fourth of the span length each side of the interior support to produce a 50% increase in moment of inertia, the increase in negative moment is approximately 5%. But this is not a linear relationship and the increase in negative moment rapidly becomes more pronounced for greater increases in moment of inertia. However, the need for a moment of inertia increase larger than 50% is not commonly encountered in highway continuous beam design.

On this basis it will be found that the tables can be used directly, with negligible error, for all beams of relatively constant moment of inertia. They also will be useful in arriving at a "first approximation" in designs where greater variation in moment of inertia are encountered.

Illustrative Problem # 1

Design longitudinal beams supporting concrete deck, spaced 6'-6" o.c. and continuous over two 57' spans. Dead load 750 lbs. per lin. ft; live load HS20. Also determine support reactions.

$Q = \frac{6.5}{5.5} = 1.18$ (See AASHO Spec., Sect. 1.3.1. (b))

Refer to Table 2.0

Live load moment per beam = tabular value $\times Q/2$.

Live load reaction per beam = tabular value $\times Q/2$, plus 16 $(3 - \frac{10}{6.5} - 1.18)$ = tabular value $\times$ 0.59 plus 4.5^k

For moments, and reaction at exterior supports, impact coefficient I $= \frac{50}{57 + 125} = 0.275$

For reaction at interior supports, impact coefficient IV $= \frac{50}{114 + 125} = 0.209$

Max. positive moment

$$M_D = 0.0703 \times 0.75 \times 57^2 = 171^{k'}$$

For 60' span, $M_L = 645.5 \times 0.59 = 381$
For 55' span, $M_L = 572.9 \times 0.59 = 338$
Difference = 43

For 57' span, $M_L = 338 + \frac{2}{5} \times 43 = 355$

$M_I = 0.275 \times 355 = 98$
$M_T = 624^{k'}$ (*)

Req'd $S = \frac{624^{k'} \times 12}{18 \text{ ksi}} = 416$ in.^{3}

33 WF 141
($S = 446.8$ in.^{3})

Max. negative moment

$$M_D = 0.125 \times 0.75 \times 57^2 = 305^{k'}$$

For 60' span, $M_L = 495.8 \times 0.59 = 293$
For 55' span, $M_L = 432.5 \times 0.59 = 255$
Difference = 38

For 57' span, $M_L = 255 + \frac{2}{5} \times 38 = 270$

$M_I = 0.275 \times 270 = 74$
$M_T = 649^{k'}$

Req'd $S = 433$ in.^{3}

Max. Reactions

At A, $R_D = 0.375 \times 0.75 \times 57 = 16.1^k$
$R_L = 0.59[57.1 + (\frac{2}{5} \times 1.2)] + 4.5^k = 38.5$
$R_I = 0.275 \times 38.5 = 10.6$
$R_A = 65.2^k$

At B, $R_D = 1.25 \times 0.75 \times 57 = 53.4^k$
$R_L = 0.59[70.0 + (\frac{2}{5} \times 4.0)] + 4.5^k = 46.7$
$R_I = 0.209 \times 46.7 = 9.8$
$R_B = 109.9^k$

Illustrative Problem # 2

Design longitudinal beams supporting concrete deck, spaced 6'-6" o.c. and continuous over 3 spans. (75' + 90' + 75' = 240') Dead load 900 lbs. per lin. ft; live load HS20 loading.

Live load per beam: 0.59 $\times$ (H-S) loading.

$N = \frac{90}{75} = 1.2$

Refer to Table No. 3.2

Max. positive moments

For 75' span, $M_D = 0.0715 \times 0.9 \times 75^2 = 362^{k'}$
$M_L = 868.5 \times 0.59 = 512$
$M_I = 512 \times 0.250 = 128$
$1002^{k'}$

Req'd $S = 668$ in.^{3}

For 90' span, $M_D = 0.0582 \times 0.9 \times 75^2 = 295^{k'}$
$M_L = 848.7 \times 0.59 = 501$
$M_I = 501 \times 0.233 = 117$
$913^{k'}$

Req'd $S = 609$ in.^{3}

Max. negative moment

$M_D = 0.1218 \times 0.9 \times 75^2 = 617^{k'}$
$M_L = 766.1 \times 0.59 = 452$
$M_I = 452 \times 0.241 = 109$
$1178^{k'}$

Req'd $S = 785$ in.^{3}

Try *36 WF 230* at supports
($S = 835.5$ in.^{3}; $I = 14{,}990$ in.^{4})

36 WF 194 elsewhere
($S = 663.6$ in.^{3}; $I = 12{,}100$ in.^{4})

* Since the maximum values for M_D and M_L do not occur at same point the maximum combined $M_D + M_L$ is negligibly less than indicated by the sum of the separate values.

Referring to the moments computed above on the basis of a constant moment of inertia, the 36 WF 194 would appear to be overstressed about 1 per cent by the positive moment in the 75 ft. span. However, use of the stiffer 36 WF 230 over the supports will reduce this moment by more than the necessary amount.

Illustrative Problem # 3

Locate intermediate piers for 4-span continuous 360′ beam bridge so as to require only one size of rolled beam (with cover plates at interior supports). Beams 6′-6″ o.c. support concrete deck. Live load HS15 dead load 800 lbs. per lin. ft. of beam.

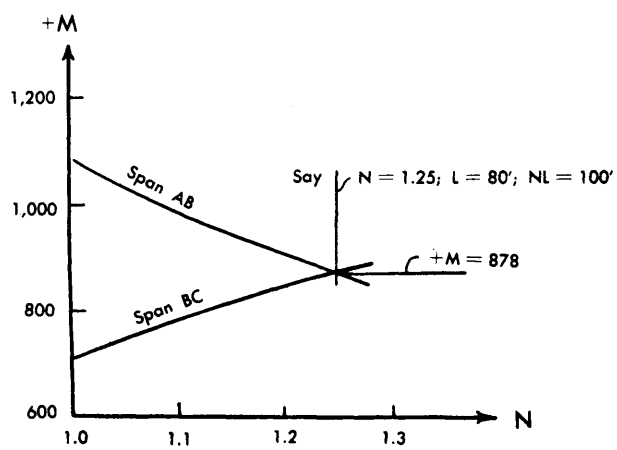
Live load moments per beam = 0.75 × 0.59 × tabular values.
= 0.443 × tabular values.

Span AB

N	1.0	1.1	1.2	1.3
M_D =	500	438	381	331
M_L =	474	451	429	410
M_I =	110	107	104	101
	1084	996	914	842

Span BC

M_D =	236	278	317	356
M_L =	385	404	421	436
M_I =	90	92	94	96
	711	774	832	888



$$\text{Req'd } S = \frac{878 \times 12}{18} = 585 \text{ in.}^3$$

Use *36 WF 182*

(S = 621.2 in.³)

At Support B

When $N = 1.25$,

$$M_D = \frac{0.1226 + 0.1328}{2} \times 0.8 \times 80^2 = 654^{k'}$$

$$M_L = \frac{906 + 911}{2} \times 0.443 = 402$$

$$M_I = 0.233 \times 402 = \frac{94}{1150^{k'}}$$

Add about 5%; say $M_T = 1210^{k'}$

Req'd S = 807 in.³

2-cov. Pls. 10 × ⅝ / 36 WF 182 } S = 828 in.³

Neg. mom. over less than ¼ of span L_1—(over less than 20′)

Req'd theoretical length of cov. pl. less than

$$\frac{807 - 621}{807} \times 20', \text{ say } 4.5'$$

Req'd theoretical length in 100′ span = $4.5N$, say 5.5′

At Support C

$$M_D = \frac{0.1187 + 0.1448}{2} \times 0.8 \times 80^2 = 675^{k'}$$

$$M_L = \frac{949 + 1001}{2} \times 0.443 = 432$$

$$M_I = \frac{0.224 + 0.221}{2} \times 432 = \frac{96}{1203^{k'}}$$

Add about 5%; say $M_T = 1265^{k'}$

Req'd S = 843 in.³

2-cov. Pls. 10 × ¾ / 36 WF 182 } S = 869 in.³

Req'd theoretical length of covers pls. each side of pier C

less than $\frac{843 - 621}{843} \times 25'$, say 6.5′

Economy Through Continuity

While it would require many more than three examples to obtain an accurate picture of the economies made possible through the use of continuous beam bridges the following tabulation is a step in this direction. Comparisons are between the solutions given for the foregoing illustrative examples and solutions using a similar number of equal simple spans.

Description	Prob. #1–114′ Crossing		Prob. #2–240′ Crossing		Prob. #3–360′ Crossing	
	Continuous Spans	2–57′ Simple Spans	Continuous Spans	3–80′ Simple Spans	Continuous Spans	4–90′ Simple Spans
	33 WF 141	36 WF 170	36 WF 194 & 36 WF 230	36 WF 280	36 WF 190 + cov. Pls.	36 WF 280
Wgt.–one line of beams–lbs.	16,070	19,380	48,940	67,200	68,520	100,800
Wgt. saving due to continuity	17%		27%		32%	
Req'd No. of shoes	3	4	4	6	5	8
Req'd No. of dams	2	4	2	6	2	8
Req'd No. of field splices	1	0	2	0	3	0

Problems Involving Special Loading; Influence Line Coefficients

FOR the solution of problems involving loading patterns other than those normally specified for highway bridges, Tables A2.0 to A4.7 will be found helpful. Symmetrical two, three and four-span structures having the same short-to-long span length ratios as those included in Tables 2.0 to 4.7 are covered by these tables, the numbering of which is identical with that of the former, with the prefix A added.

Given in these tables are coefficients by means of which the moment (positive or negative) at any interior support or at any tenth point along all spans, produced by a unit load P placed at the same or any other tenth point in the spans, can be computed. In order to list all possible values of these coefficients a horizontal tabulation is given opposite all support and tenth points for all spans. However, due to the symmetry of the structures, all moment values can be tabulated in a lesser number of vertical columns.

Values given along any one horizontal line are ordinates to the bending moment diagram produced by a unit load placed at the load point, shown at the left of the table, opposite which they are tabulated, considering the length of the shorter span as equal to unity and that of the longer spans as equal to N. Taken vertically, the values in any one column are ordinates to the influence line for the point under which they are tabulated.

Values shown in the heavily outlined frames are the largest possible at the point on the continuous beam under which they are tabulated and are produced when the load P is placed at this point. Hence, these values are ordinates to an envelope of the maximum positive moments produced by a single moving concentrated load.

The lowest line in Tables A2.0 to A4.7, designated "Total Area," gives ordinates to the moment diagram produced by a load, uniformly distributed along the entire structure and having a value of unity per unit of shorter span length. The two lines immediately above give, respectively, the largest positive and negative moments produced by partial distribution of the unit uniform load w.

Also included in Tables A2.0 to A4.7 are influence coefficients for all reactions, and shears adjacent to these reactions.

The following rules for use of these tables are summarized:

1. **Reactions and Shears Due to Concentrated Load**—Multiply the tabulated coefficient by the weight of the concentrated load.
2. **Reactions and Shears Due to Uniform Load**—Multiply the tabulated coefficient by the product of the weight per unit length of the uniform load and the length of the SHORTER span.
3. **Moments Due to Concentrated Load**—Multiply the tabulated moment coefficient by the product of the weight of the concentrated load and the length of the SHORTER span.
4. **Moments Due to Uniform Load**—Multiply the tabulated moment area coefficient by the product of the weight per unit length of the uniform load and the square of the length of the SHORTER span.

Special Load Points

In addition to those given at the tenth points of each span, moment and reaction coefficients are listed in Tables 2S, 3S and 4S for certain special load points.

Two of these points, which occur between the four-tenths and five-tenths points of the shorter spans, locate, respectively, the maximum positive moments in that span produced by a single concentrated load and by partial uniform loading. The maximum moment produced by the single concentrated load occurs at the special point nearer the exterior support.

Another special point is located in all cases in the shorter span, 0.5774 L from the exterior support. A load at this point produces the maximum negative moment at the first interior support due to a concentrated load in the shorter span.

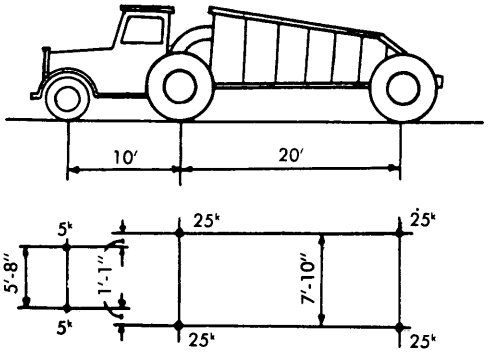
Other special points include those in the longer spans at which a concentrated load will produce the maximum negative moment at the interior supports. One such point falls between the three-tenths and four-tenths points of the longer span for the three-span and four-span structures. A load at this point yields the maximum moment value at the first interior support produced by a concentrated load placed anywhere in the longer spans. It also produces the maximum negative exterior reaction and the maximum negative moment at all points in unloaded shorter spans. The maximum negative moment at the second interior support of four-span structures is produced by a load near the six-tenths point of the longer spans.

A special point, which applies to the three- and four-span structures only, occurs less than one-tenth of the span length from the first interior support. It is one at which a single concentrated load will produce the largest reaction at this support. For two equal spans and for the second interior support of four-span structures the maximum interior reaction will occur with the concentrated load directly over the interior support.

These special points are tabulated for the purpose of locating precisely the peaks of the various influence lines, to facilitate the positioning of loads for absolute maximum effect and to minimize the possibility of introducing excessive errors in interpolating the table due to truncation of the peaks.

Illustrative Problem # 4

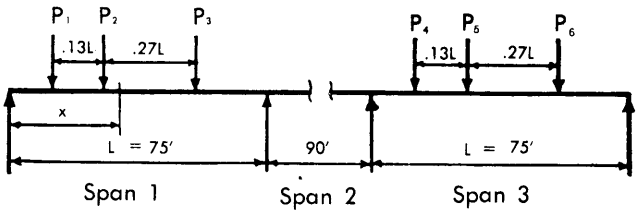
Investigate stresses in 75′-90′-75′ continuous bridge designed in Problem #2 using earth moving truck loading shown below.



Consider moments produced by one moving truck with impact and also trucks standing in more than one span, without impact.

Refer to Table A3.2

Max. positive moments



75′ spans loaded as per sketch*

$$P_1 = P_4 = \frac{5.42'}{6.50'} \times 5^k = 4^k$$
$$P_2 = P_3 = P_5 = P_6 = 25^k$$
$$\frac{20'}{75'} = 0.27$$

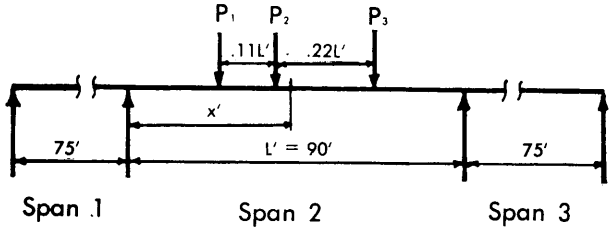
Truck in Span 1:

	Infl. Coeff.		*Load*		M_x/L
When $x = 0.3L$, with					
P_1 @ $0.17L$, Span 1,	0.1069	×	4^k	=	0.43^k
P_2 @ $0.30L$, Span 1,	0.1899	×	25	=	4.75
P_3 @ $0.57L$, Span 1,	0.1009	×	25	=	2.52
					7.70^k
When $x = 0.4L$, with					
P_1 @ $0.27L$, Span 1,	0.1376	×	4^k	=	0.55^k
P_2 @ $0.40L$, Span 1,	0.2070	×	25	=	5.18
P_3 @ $0.67L$, Span 1,	0.0961	×	25	=	2.40
					8.13^k ◀
When $x = 0.5L$, with					
P_1 @ $0.37L$, Span 1,	0.1461	×	4^k	=	0.58^k
P_2 @ $0.50L$, Span 1,	0.2040	×	25	=	5.10
P_3 @ $0.77L$, Span 1,	0.0771	×	25	=	1.93
					7.61^k

Truck in Span 3:

	Infl. Coeff.		*Load*		M_x/L
When $x = 0.4L$†, with					
P_4 @ $0.07L$, Span 3,	0.0032	×	4^k	=	0.01^k
P_5 @ $0.20L$, Span 3,	0.0077	×	25	=	0.19
P_6 @ $0.47L$, Span 3,	0.0101	×	25	=	0.25
					0.45^k
P_4 @ $0.17L$, Span 3,	0.0068	×	4^k	=	0.03^k
P_5 @ $0.30L$, Span 3,	0.0096	×	25	=	0.24
P_6 @ $0.57L$, Span 3,	0.0093	×	25	=	0.23
					0.50^k ◀
P_4 @ $0.27L$, Span 3,	0.0091	×	4^k	=	0.04^k
P_5 @ $0.40L$, Span 3,	0.0103	×	25	=	0.26
P_6 @ $0.67L$, Span 3,	0.0078	×	25	=	0.20
					0.50^k ◀
P_4 @ $0.37L$, Span 3,	0.0101	×	4^k	=	0.04^k
P_5 @ $0.50L$, Span 3,	0.0100	×	25	=	0.25
P_6 @ $0.77L$, Span 3,	0.0058	×	25	=	0.15
					0.44^k

Maximum positive moment in Span 1 produced with P_2 at 0.4 point of Span 1 and P_5 between 0.3 and 0.4 points of Span 3.



90′ span loaded as per sketch.

$P_1 = 4^k$; $P_2 = P_3 = 25^k$.

$$\frac{20'}{90'} = 0.22$$

	Infl. Coeff.		*Load*		M_x/L
When $x' = 0.4L'$, with					
P_1 @ $0.29L'$,	0.1259	×	4^k	=	0.50^k
P_2 @ $0.40L'$,	0.1933	×	25	=	4.83
P_3 @ $0.62L'$,	0.0946	×	25	=	2.37
					7.70^k

* A complete investigation would reveal that the maximum positive moment in Span 1 is produced when the trucks are headed towards the left.

† Position of truck in Span 3, producing largest positive moments in Span 1, same for all points in Span 1.

When $x' = 0.5L'$, with

P_1 @ $0.39L'$, $0.1426 \times 4^k = 0.57^k$
P_2 @ $0.50L'$, $0.2036 \times 25 = 5.09$
P_3 @ $0.72L'$, $0.0909 \times 25 = 2.27$
7.93^k ◀

When $x' = 0.6L'$, with

P_1 @ $0.49L'$, $0.1394 \times 4^k = 0.56^k$
P_2 @ $0.60L'$, $0.1933 \times 25 = 4.83$
P_3 @ $0.82L'$, $0.0692 \times 25 = 1.73$
7.12^k

For trucks standing in Spans 1 and 3, no impact:

$$M_x\ L = 8.13 + 0.50 = 8.63^k$$

For 1 moving truck in Span 2, including impact:

$$M_x\ L = 7.93 \times 1.233 = 9.78^k$$

For 1 moving truck in Span 1, including impact:

$$M_x/L = 8.13 \times 1.25 = 10.16^k$$

Critical $M_{L+I} = 10.16^k \times 75' = 762^{k'}$
M_D (See Prob. #2) $= 294$
$1056^{k'}$

$$f_b = \frac{1056 \times 12}{663.6} = 19.1 \text{ ksi}$$

Max. negative moment

A complete investigation would disclose that the negative moments at the interior supports, produced by a truck in Span 2, are not significantly different regardless of the orientation of this truck. Such is not the case in considering the effect of a second truck in one of the shorter spans. The negative moment at support B would have its maximum value only if a truck placed in Span 1 were headed towards the right. This same maximum value, of course, would be produced at support C with a truck in Span 3 headed towards the left.

M/L at C, due to truck in Span 2, when:

P_1 @ $0.29L'$, $0.0599 \times 4^k = 0.24^k$
P_2 @ $0.40L'$, $0.0818 \times 25 = 2.05$
P_3 @ $0.62L'$, $0.1027 \times 25 = 2.57$
4.86^k

P_1 @ $0.39L'$, $0.0798 \times 4^k = 0.32^k$
P_2 @ $0.50L'$, $0.0964 \times 25 = 2.41$
P_3 @ $0.72L'$, $0.0966 \times 25 = 2.42$
5.15^k ◀

P_1 @ $0.49L'$, $0.0949 \times 4^k = 0.38^k$
P_2 @ $0.60L'$, $0.1034 \times 25 = 2.59$
P_3 @ $0.82L'$, $0.0768 \times 25 = 1.92$
4.89^k

M/L at C, due to truck in Span 3, when:

P_1 @ $0.07L$, $0.0294 \times 4^k = 0.12^k$
P_2 @ $0.20L$, $0.0707 \times 25 = 1.77$
P_3 @ $0.47L$, $0.0927 \times 25 = 2.32$
4.21^k

P_1 @ $0.17L$, $0.0621 \times 4^k = 0.25^k$
P_2 @ $0.30L$, $0.0877 \times 25 = 2.19$
P_3 @ $0.57L$, $0.0854 \times 25 = 2.14$
4.58^k ◀

P_1 @ $0.27L$, $0.0826 \times 4^k = 0.33^k$
P_2 @ $0.40L$, $0.0943 \times 25 = 2.36$
P_3 @ $0.67L$, $0.0717 \times 25 = 1.79$
4.48^k

For 1 moving truck, including impact:

$$M_{L+I} = 1.241 \times 5.15^k \times 75' = 479^{k'}$$

For 2 standing trucks, no impact:

$M_L = (4.58^k + 5.15^k)\ 75' = 730^{k'}$ (governs)
M_D (See Prob. #2) $= 618^{k'}$
$1348^{k'}$

$$f_b = \frac{1348 \times 12}{835.5} = 19.4 \text{ ksi}$$

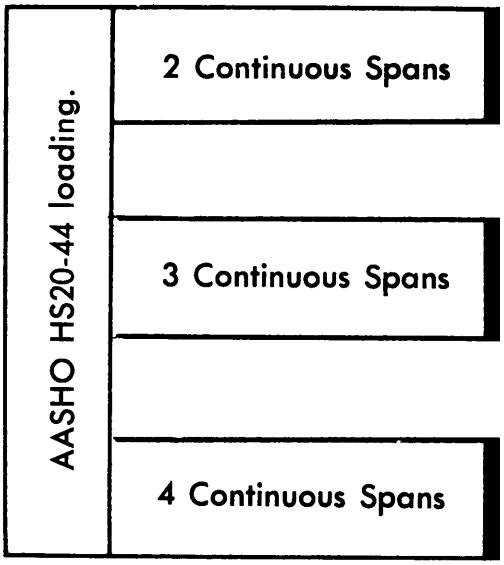
Shear at field splice 18′ from supports in Span 2

With P_1 @ $0.20L$, $V_{BC} = 0.8360 \times 25^k = 20.9^k$
P_2 @ $0.42L$, $= 0.5944 \times 25 = 14.9$
P_3 @ $0.53L$, $= 0.4646 \times 4 = 1.9$
L.L.shear $= 37.7^k$

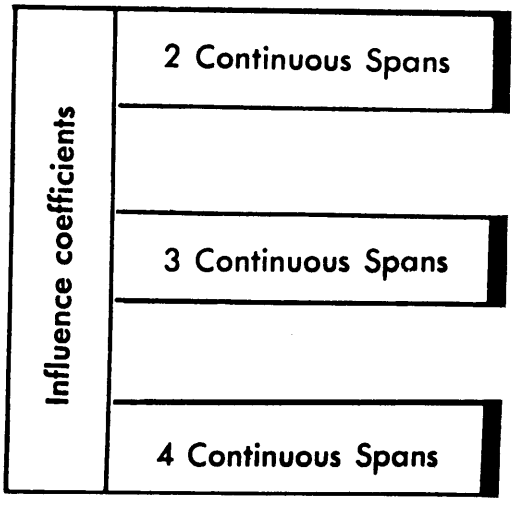
D.L. shear $= 0.9^{k/'}\left(\frac{90'}{2} - 18'\right) = 24.3$
Total shear $= 62.0^k$

Comment:

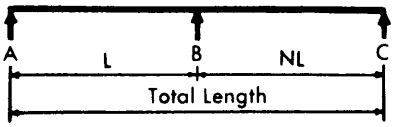
In the above calculations influence coefficients were obtained by interpolation, placing the loads at the nearest one-hundredth of span length. While no general conclusion can be drawn, it is interesting to note that, in the given example, any error resulting from rounding off actual load positions to the nearest tenth of the span, in order to avoid interpolation, would not have exceeded 3 per cent for live load alone nor 2 per cent for live plus impact plus dead load.


AASHO HS20-44 loading.
2 Continuous Spans
3 Continuous Spans
4 Continuous Spans

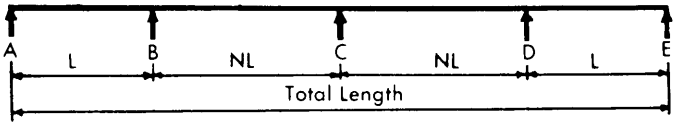
TABLES


Influence coefficients
2 Continuous Spans
3 Continuous Spans
4 Continuous Spans

Two-span continuous beam.

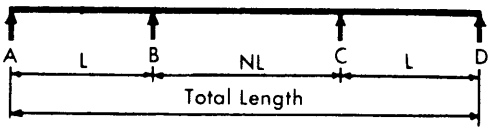


Symmetrical four-span continuous beam.



Total Length		N=1.0		N=1.1		N=1.2		N=1.3		N=1.4		N=1.5		N=1.6		N=1.7	
2 Span	4 Span	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL
60	120	30.0	30.0	28.6	31.4	27.3	32.7	26.1	33.9	25.0	35.0	24.0	36.0	23.1	36.9	37.8	22.2
70	140	35.0	35.0	33.3	36.7	31.8	38.2	30.4	39.6	29.2	40.8	28.0	42.0	26.9	43.1	44.1	25.9
80	160	40.0	40.0	38.1	41.9	36.4	43.6	34.8	45.2	33.3	46.7	32.0	48.0	30.8	49.2	50.4	29.6
90	180	45.0	45.0	42.9	47.1	40.9	49.1	39.1	50.9	37.5	52.5	36.0	54.0	34.6	55.4	56.7	33.3
100	200	50.0	50.0	47.6	52.4	45.5	54.5	43.5	56.5	41.7	58.3	40.0	60.0	38.5	61.5	63.0	37.0
110	220	55.0	55.0	52.4	57.6	50.0	60.0	47.8	62.2	45.8	64.2	44.0	66.0	42.3	67.7	69.3	40.7
120	240	60.0	60.0	57.1	62.9	54.5	65.5	52.2	67.8	50.0	70.0	48.0	72.0	46.2	73.8	75.6	44.4
130	260	65.0	65.0	61.9	68.1	59.1	70.9	56.5	73.5	54.2	75.8	52.0	78.0	50.0	80.0	81.9	48.1
140	280	70.0	70.0	66.7	73.3	63.6	76.4	60.9	79.1	58.3	81.7	56.0	84.0	53.8	86.2	88.1	51.9
150	300	75.0	75.0	71.4	78.6	68.2	81.8	65.2	84.8	62.5	87.5	60.0	90.0	57.7	92.3	94.4	55.6
160	320	80.0	80.0	76.2	83.8	72.7	87.3	69.6	90.4	66.7	93.3	64.0	96.0	61.5	98.5	100.7	59.3
170	340	85.0	85.0	81.0	89.0	77.3	92.7	73.9	96.1	70.8	99.2	68.0	102.0	65.4	104.6	107.0	63.0
180	360	90.0	90.0	85.7	94.3	81.8	98.2	78.3	101.7	75.0	105.0	72.0	108.0	69.2	110.8	113.3	66.7
190	380	95.0	95.0	90.5	99.5	86.4	103.6	82.6	107.4	79.2	110.8	76.0	114.0	73.1	116.9	119.6	70.4
200	400	100.0	100.0	95.2	104.8	90.9	109.1	87.0	113.0	83.3	116.7	80.0	120.0	76.9	123.1	125.9	74.1
210	420	105.0	105.0	100.0	110.0	95.5	114.5	91.3	118.7	87.5	122.5	84.0	126.0	80.8	129.2	132.2	77.8
220	440	110.0	110.0	104.8	115.2	100.0	120.0	95.7	124.3	91.7	128.3	88.0	132.0	84.6	135.4	138.5	81.5
230	460	115.0	115.0	109.5	120.5	104.5	125.5	100.0	130.0	95.8	134.2	92.0	138.0	88.5	141.5	144.8	85.2
240	480	120.0	120.0	114.3	125.7	109.1	130.9	104.3	135.7	100.0	140.0	96.0	144.0	92.3	147.7	151.1	88.9

Symmetrical three-span continuous beam.



Total Length	N=1.0		N=1.1		N=1.2		N=1.3		N=1.4		N=1.5		N=1.6		N=1.7	
	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL	L	NL
90	30.0	30.0	29.0	31.9	28.1	33.8	27.3	35.5	26.5	37.1	25.7	38.6	25.0	40.0	24.3	41.4
105	35.0	35.0	33.9	37.3	32.8	39.4	31.8	41.4	30.9	43.2	30.0	45.0	29.2	46.7	28.4	48.2
120	40.0	40.0	38.7	42.6	37.5	45.0	36.4	47.3	35.3	49.4	34.3	51.4	33.3	53.3	32.4	55.1
135	45.0	45.0	43.5	47.9	42.2	50.6	40.9	53.2	39.7	55.6	38.6	57.9	37.5	60.0	36.5	62.0
150	50.0	50.0	48.4	53.2	46.9	56.3	45.5	59.1	44.1	61.8	42.9	64.3	41.7	66.7	40.5	68.9
165	55.0	55.0	53.2	58.5	51.6	61.9	50.0	65.0	48.5	67.9	47.1	70.7	45.8	73.3	44.6	75.8
180	60.0	60.0	58.1	63.9	56.3	67.5	54.5	70.9	52.9	74.1	51.4	77.1	50.0	80.0	48.6	82.7
195	65.0	65.0	62.9	69.2	60.9	73.1	59.1	76.8	57.4	80.3	55.7	83.6	54.2	86.7	52.7	89.6
210	70.0	70.0	67.7	74.5	65.6	78.8	63.6	82.7	61.8	86.5	60.0	90.0	58.3	93.3	56.8	96.5
225	75.0	75.0	72.6	79.8	70.3	84.4	68.2	88.6	66.2	92.6	64.3	96.4	62.5	100.0	60.8	103.4
240	80.0	80.0	77.4	85.2	75.0	90.0	72.7	94.5	70.6	98.8	68.6	102.9	66.7	106.7	64.9	110.3
255	85.0	85.0	82.3	90.5	79.7	95.6	77.3	100.5	75.0	105.0	72.9	109.3	70.8	113.3	68.9	117.2
270	90.0	90.0	87.1	95.8	84.4	101.3	81.8	106.4	79.4	111.2	77.1	115.7	75.0	120.0	73.0	124.1
285	95.0	95.0	91.9	101.1	89.1	106.9	86.4	112.3	83.8	117.4	81.4	122.1	79.2	126.7	77.0	130.9
300	100.0	100.0	96.8	106.5	93.8	112.5	90.9	118.2	88.2	123.5	85.7	128.6	83.3	133.3	81.1	137.8
315	105.0	105.0	101.6	111.8	98.4	118.1	95.5	124.1	92.6	129.7	90.0	135.0	87.5	140.0	85.1	144.7
330	110.0	110.0	106.5	117.1	103.1	123.8	100.0	130.0	97.1	135.9	94.3	141.4	91.7	146.7	89.2	151.6
345	115.0	115.0	111.3	122.4	107.8	129.4	104.5	135.9	101.5	142.1	98.6	147.9	95.8	153.3	93.2	158.5
360	120.0	120.0	116.1	127.7	112.5	135.0	109.1	141.8	105.9	148.2	102.9	154.3	100.0	160.0	97.3	165.4

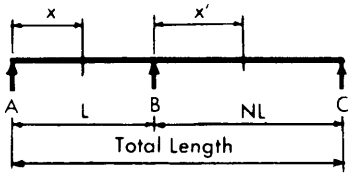
N=1.0

TABLE 2.0

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	30.0	46.4	63.1	46.4	-52.9	52.9	231.4	-193.1	231.4	.300	.300	.300	.270	10.7	19.3
70	35.0	49.5	65.3	49.5	-56.3	56.3	290.9	-229.4	290.9	.300	.300	.300	.256	12.7	22.3
80	40.0	52.0	66.8	52.0	-58.7	58.7	358.2	-266.6	358.2	.300	.300	.300	.244	16.1	23.9
90	45.0	54.1	67.8	54.1	-60.6	60.6	429.1	-317.9	429.1	.294	.294	.294	.233	18.2	26.8
100	50.0	55.7	68.6	55.7	-62.0	62.0	500.7	-373.2	500.7	.286	.286	.286	.222	20.3	29.7
110	55.0	57.1	70.0	57.1	-63.2	63.2	572.9	-432.5	572.9	.278	.278	.278	.213	22.4	32.6
120	60.0	58.3	74.0	58.3	-64.1	64.1	645.5	-495.8	645.5	.270	.270	.270	.204	24.5	35.5
130	65.0	59.3	78.0	59.3	-64.8	64.8	718.5	-563.2	718.5	.263	.263	.263	.196	26.6	38.4
140	70.0	60.2	82.0	60.2	-65.5	65.5	791.6	-634.5	791.6	.256	.256	.256	.189	28.7	41.3
150	75.0	61.0	86.0	61.0	-66.0	66.0	865.0	-709.8	865.0	.250	.250	.250	.182	30.8	44.2
160	80.0	61.6	90.0	61.6	-66.5	66.5	938.6	-789.1	938.6	.244	.244	.244	.175	33.0	47.0
170	85.0	62.2	94.0	62.2	-66.9	66.9	1012.3	-872.4	1012.3	.238	.238	.238	.169	35.1	49.9
180	90.0	62.8	98.0	62.8	-67.2	67.2	1086.0	-959.8	1086.0	.233	.233	.233	.164	37.3	52.7
190	95.0	63.2	102.0	63.2	-67.5	67.5	1159.9	-1051.1	1159.9	.227	.227	.227	.159	39.4	55.6
200	100.0	63.7	106.0	63.7	-67.8	67.8	1233.9	-1146.4	1233.9	.222	.222	.222	.154	41.5	58.5
210	105.0	64.1	110.0	64.1	-68.0	68.0	1307.9	-1245.7	1307.9	.217	.217	.217	.149	43.7	61.3
220	110.0	64.4	114.0	64.4	-70.0	70.0	1382.0	-1349.1	1382.0	.213	.213	.213	.145	45.8	64.2
230	115.0	64.7	118.0	64.7	-72.0	72.0	1456.1	-1456.4	1456.1	.208	.208	.208	.141	48.0	67.0
240	120.0	65.0	122.0	65.0	-74.0	74.0	1530.3	-1567.7	1530.3	.204	.204	.204	.137	50.1	69.9
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.3750 x wL	1.2500 x wL	.3750 x wL	-.6250 x wL	.6250 x wL	.0703 x wL^2	-1.1250 x wL^2	.0703 x wL^2					.3750 x L	.6250 x L

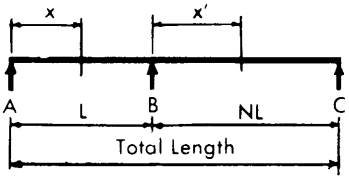
TABLE 2.1

N=1.1

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	28.6	45.6	63.1	47.2	-52.1	54.1	217.0	-195.6	245.6	.300	.300	.300	.270	10.2	20.2
70	33.3	48.7	65.4	50.3	-55.1	57.3	273.7	-232.4	307.8	.300	.300	.300	.256	12.1	23.3
80	38.1	51.3	66.9	52.7	-57.7	59.7	335.4	-268.3	380.7	.300	.300	.300	.244	15.4	25.1
90	42.9	53.4	67.9	54.7	-59.7	61.4	403.2	-319.3	454.5	.298	.294	.290	.233	17.4	28.2
100	47.6	55.1	68.7	56.3	-61.2	62.8	471.8	-375.0	529.0	.290	.286	.282	.222	19.4	31.3
110	52.4	56.6	70.1	57.6	-62.5	63.8	541.0	-434.6	604.2	.282	.278	.274	.213	21.4	34.3
120	57.1	57.8	74.1	58.8	-63.4	64.7	610.7	-498.3	679.7	.275	.270	.266	.204	23.4	37.4
130	61.9	58.8	78.1	59.8	-64.2	65.4	680.6	-566.0	755.6	.268	.263	.259	.196	25.4	40.4
140	66.7	59.7	82.1	60.6	-64.9	66.0	750.9	-637.7	831.7	.261	.256	.252	.189	27.5	43.4
150	71.4	60.5	86.1	61.3	-65.5	66.5	821.3	-713.5	908.0	.255	.250	.246	.182	29.5	46.4
160	76.2	61.2	90.2	62.0	-66.0	66.9	891.9	-793.2	984.4	.249	.244	.239	.175	31.6	49.5
170	81.0	61.8	94.2	62.6	-66.4	67.3	962.6	-877.0	1061.0	.243	.238	.234	.169	33.6	52.5
180	85.7	62.4	98.2	63.1	-66.8	67.6	1033.4	-964.9	1137.7	.237	.233	.228	.164	35.7	55.5
190	90.5	62.9	102.2	63.5	-67.1	67.9	1104.4	-1056.7	1214.4	.232	.227	.223	.159	37.7	58.5
200	95.2	63.3	106.2	64.0	-67.4	68.1	1175.4	-1152.6	1291.3	.227	.222	.218	.154	39.8	61.5
210	100.0	63.7	110.2	64.3	-67.6	69.3	1246.5	-1252.6	1368.2	.222	.217	.213	.149	41.9	64.5
220	104.8	64.1	114.2	64.7	-68.8	71.3	1317.6	-1356.5	1445.2	.218	.213	.208	.145	43.9	67.5
230	109.5	64.5	118.2	65.0	-70.8	73.4	1388.8	-1464.5	1522.2	.213	.208	.204	.141	46.0	70.5
240	114.3	64.8	122.2	65.3	-72.7	75.5	1460.1	-1576.5	1599.3	.209	.204	.199	.137	48.0	73.5
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.3613 x wL	1.3149 x wL	.4239 x wL	.6388 x wL	.6761 x wL	.0653 x wL^2	-.1387 x wL^2	.0898 x wL^2					.3613 .x L	.6761 x L

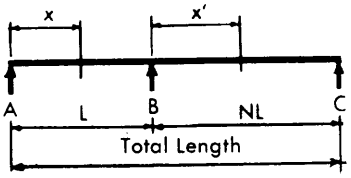
N=1.2

TABLE 2.2

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	27.3	44.8	63.4	47.9	-51.3	55.1	203.7	-198.7	258.4	.300	.300	.300	.270	9.7	21.0
70	31.8	47.9	65.7	50.9	-53.9	58.3	257.8	-236.1	325.4	.300	.300	.300	.256	11.5	23.0
80	36.4	50.6	67.2	53.3	-56.7	60.5	313.7	-272.6	400.7	.300	.300	.296	.244	13.4	26.2
90	40.9	52.7	68.2	55.2	-58.8	62.1	379.3	-323.2	477.2	.300	.294	.287	.233	16.7	29.5
100	45.5	54.5	69.0	56.8	-60.4	63.4	445.1	-379.6	554.4	.293	.286	.278	.222	18.6	32.7
110	50.0	56.0	70.4	58.1	-61.7	64.4	511.6	-440.1	632.1	.286	.278	.270	.213	20.5	35.9
120	54.5	57.2	74.5	59.2	-62.8	65.2	578.5	-504.7	710.3	.278	.270	.263	.204	22.4	39.0
130	59.1	58.3	78.5	60.1	-63.6	65.9	645.7	-573.4	788.7	.272	.263	.255	.196	24.4	42.2
140	63.6	59.3	82.5	61.0	-64.4	66.4	713.1	-646.2	867.4	.265	.256	.248	.189	26.3	45.4
150	68.2	60.1	86.5	61.7	-65.0	66.9	780.8	-723.1	946.3	.259	.250	.242	.182	28.3	48.5
160	72.7	60.8	90.6	62.3	-65.5	67.3	848.7	-804.1	1025.3	.253	.244	.236	.175	30.3	51.7
170	77.3	61.5	94.6	62.9	-66.0	67.6	916.7	-889.2	1104.5	.247	.238	.230	.169	32.2	54.9
180	81.8	62.0	98.6	63.4	-66.4	67.9	984.8	-978.4	1183.8	.242	.233	.224	.164	34.2	58.0
190	86.4	62.5	102.7	63.8	-66.7	68.2	1053.0	-1071.7	1263.1	.237	.227	.219	.159	36.2	61.2
200	90.9	63.0	106.7	64.2	-67.0	68.4	1121.3	-1169.1	1342.6	.232	.222	.214	.154	38.2	64.3
210	95.5	63.4	110.7	64.6	-67.3	70.5	1189.6	-1270.6	1422.1	.227	.217	.209	.149	40.2	67.4
220	100.0	63.8	114.7	64.9	-67.9	72.7	1258.0	-1376.2	1501.6	.222	.213	.204	.145	42.1	70.6
230	104.5	64.2	118.8	65.2	-69.8	74.8	1326.5	-1485.9	1581.2	.218	.208	.200	.141	44.1	73.7
240	109.1	64.5	122.8	65.5	-71.7	76.9	1395.0	-1599.7	1660.9	.214	.204	.195	.137	46.1	76.9
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.3450 x wL	1.3842 x wL	.4708 x wL	.6550 x wL	.7292 x wL	.0595 x wL^2	-.1550 x wL^2	.1108 x wL^2					.3450 x L	.7292 x L

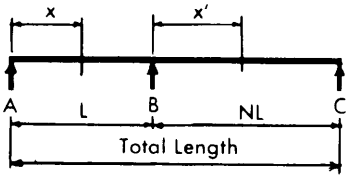
N=1.3

TABLE 2.3

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	26.1	44.2	63.8	48.5	-50.5	56.0	191.5	-206.2	269.8	.300	.300	.300	.270	9.2	21.8
70	30.4	47.2	66.1	51.4	-53.0	59.0	243.1	-248.6	341.0	.300	.300	.300	.256	11.0	23.9
80	34.8	49.8	67.6	53.7	-55.7	61.1	296.7	-292.5	418.7	.300	.300	.294	.244	12.8	27.3
90	39.1	52.0	68.7	55.6	-57.9	62.7	357.1	-342.8	497.6	.300	.294	.284	.233	16.0	30.6
100	43.5	53.9	69.4	57.2	-59.6	63.9	420.4	-392.1	577.1	.297	.286	.275	.222	17.8	34.0
110	47.8	55.4	70.9	58.4	-61.0	64.9	484.2	-448.1	657.2	.289	.278	.267	.213	19.7	37.3
120	52.2	56.7	75.0	59.5	-62.1	65.6	548.6	-514.1	737.7	.282	.270	.259	.204	21.5	40.6
130	56.5	57.8	79.0	60.5	-63.0	66.2	613.2	-584.2	818.5	.275	.263	.252	.196	23.4	43.9
140	60.9	58.8	83.1	61.3	-63.8	66.8	678.1	-658.6	899.5	.269	.256	.245	.189	25.3	47.2
150	65.2	59.7	87.1	62.0	-64.5	67.2	743.3	-737.2	980.7	.263	.250	.238	.182	27.2	50.5
160	69.6	60.4	91.2	62.6	-65.0	67.6	808.6	-820.0	1062.1	.257	.244	.232	.175	29.1	53.8
170	73.9	61.1	95.2	63.1	-65.5	67.9	874.0	-907.0	1143.6	.251	.238	.226	.169	31.0	57.0
180	78.3	61.7	99.3	63.6	-65.9	68.2	939.6	-998.1	1225.2	.246	.233	.221	.164	32.9	60.3
190	82.6	62.2	103.4	64.0	-66.3	68.4	1005.3	-1093.5	1306.9	.241	.227	.215	.159	34.8	63.6
200	87.0	62.7	107.4	64.4	-66.6	69.6	1071.0	-1193.1	1388.6	.236	.222	.210	.154	36.7	66.9
210	91.3	63.1	111.5	64.8	-66.9	71.8	1136.9	-1296.9	1470.5	.231	.217	.205	.149	38.6	70.1
220	95.7	63.5	115.5	65.1	-67.2	74.0	1202.7	-1404.9	1552.3	.227	.213	.201	.145	40.5	73.4
230	100.0	63.9	119.6	65.4	-69.1	76.2	1268.7	-1517.1	1634.3	.222	.208	.196	.141	42.4	76.7
240	104.3	64.2	123.6	65.7	-71.0	78.3	1334.7	-1633.6	1716.2	.218	.204	.192	.137	44.3	80.0
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.3263 x wL	.4574 x wL	.5163 x wL	-.6737 x wL	.7837 x wL	.0532 x wL^2	-.1737 x wL^2	.1333 x wL^2					.3263 x L	.7837 x L

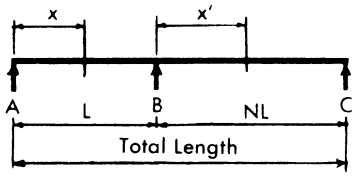
TABLE 2.4

N=1.4

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	25.0	43.5	64.4	49.0	-49.7	56.8	180.2	-220.1	280.2	.300	.300	.300	.270	8.8	22.5
70	29.2	46.4	66.6	51.9	-52.4	59.7	229.6	-264.8	355.1	.300	.300	.300	.256	10.5	24.7
80	33.3	49.1	68.1	54.2	-54.7	61.7	280.9	-315.3	435.0	.300	.300	.291	.244	12.3	28.2
90	37.5	51.4	69.2	56.0	-57.0	63.2	336.4	-368.6	516.0	.300	.294	.282	.233	15.4	31.7
100	41.7	53.3	69.9	57.5	-58.8	64.4	397.3	-420.8	597.7	.300	.286	.273	.222	17.1	35.1
110	45.8	54.9	71.5	58.8	-60.3	65.3	458.8	-472.1	679.9	.293	.278	.264	.213	18.9	38.6
120	50.0	56.2	75.6	59.8	-61.5	66.0	520.7	-525.6	762.5	.286	.270	.256	.204	20.7	42.0
130	54.2	57.4	79.7	60.7	-62.4	66.6	583.0	-597.6	845.4	.279	.263	.249	.196	22.5	45.4
140	58.3	58.4	83.8	61.5	-63.3	67.1	645.6	-673.9	928.5	.273	.256	.242	.189	24.3	48.8
150	62.5	59.2	87.9	62.2	-63.9	67.5	708.4	-754.5	1011.8	.267	.250	.235	.182	26.1	52.3
160	66.7	60.0	92.0	62.8	-64.5	67.8	771.3	-839.5	1095.3	.261	.244	.229	.175	28.0	55.7
170	70.8	60.7	96.1	63.3	-65.1	68.1	834.4	-928.8	1178.9	.255	.238	.223	.169	29.8	59.1
180	75.0	61.3	100.2	63.8	-65.5	68.4	897.6	-1022.4	1262.6	.250	.233	.217	.164	31.6	62.5
190	79.2	61.9	104.2	64.2	-65.9	68.6	960.9	-1120.4	1346.4	.245	.227	.212	.159	33.4	65.9
200	83.3	62.4	108.3	64.6	-66.3	70.8	1024.3	-1222.7	1430.2	.240	.222	.207	.154	35.3	69.3
210	87.5	62.8	112.4	65.0	-66.6	73.0	1087.8	-1329.3	1514.2	.235	.217	.202	.149	37.1	72.6
220	91.7	63.2	116.5	65.3	-66.9	75.2	1151.3	-1440.3	1598.1	.231	.213	.197	.145	38.9	76.0
230	95.8	63.6	120.6	65.6	-68.6	77.5	1214.9	-1555.6	1682.1	.226	.208	.193	.141	40.8	79.4
240	100.0	63.9	124.7	65.8	-70.5	79.7	1278.5	-1675.2	1766.2	.222	.204	.189	.137	42.6	82.8
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.3050 x wL	1.5343 x wL	.5607 x wL	-.6950 x wL	.8393 x wL	.0465 x wL^2	-.1950 x wL^2	.1572 x wL^2					.3050 .x L	.8393 x L

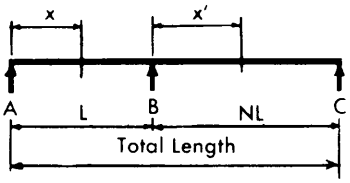
TABLE 2.5

N=1.5

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	24.0	42.9	65.0	49.4	-48.9	57.5	169.7	-233.4	289.7	.300	.300	.300	.270	8.4	23.2
70	28.0	45.6	67.2	52.3	-51.7	60.3	216.9	-280.3	367.9	.300	.300	.299	.256	10.1	25.5
80	32.0	48.4	68.7	54.5	-53.7	62.2	266.2	-336.9	449.8	.300	.300	.289	.244	11.7	29.1
90	36.0	50.7	69.6	56.3	-56.1	63.7	316.7	-393.0	532.7	.300	.294	.279	.233	13.5	32.7
100	40.0	52.7	70.4	57.8	-58.0	64.7	375.9	-448.0	616.3	.300	.286	.270	.222	16.5	36.3
110	44.0	54.3	72.2	59.0	-59.6	65.6	435.1	-502.1	700.5	.296	.278	.262	.213	18.2	39.8
120	48.0	55.7	76.4	60.1	-60.8	66.3	494.8	-555.6	785.0	.289	.270	.254	.204	19.9	43.3
130	52.0	56.9	80.5	61.0	-61.8	66.9	554.9	-612.7	869.8	.282	.263	.246	.196	21.7	46.9
140	56.0	57.9	84.6	61.7	-62.7	67.3	615.2	-691.2	954.9	.276	.256	.239	.189	23.4	50.4
150	60.0	58.8	88.8	62.4	-63.4	67.7	675.8	-774.2	1040.1	.270	.250	.233	.182	25.2	53.9
160	64.0	59.6	92.9	63.0	-64.1	68.1	736.5	-861.7	1125.5	.265	.244	.226	.175	26.9	57.4
170	68.0	60.3	97.0	63.5	-64.6	68.4	797.4	-953.6	1211.0	.259	.238	.220	.169	28.7	60.9
180	72.0	60.9	101.2	64.0	-65.1	68.6	858.4	-1050.0	1296.6	.254	.233	.215	.164	30.4	64.4
190	76.0	61.5	105.3	64.4	-65.5	69.6	919.5	-1150.9	1382.2	.249	.227	.209	.159	32.2	68.0
200	80.0	62.0	109.4	64.8	-65.9	71.9	980.7	-1256.3	1468.0	.244	.222	.204	.154	34.0	71.5
210	84.0	62.5	113.6	65.1	-66.2	74.2	1042.0	-1366.1	1553.8	.239	.217	.199	.149	35.7	75.0
220	88.0	62.9	117.7	65.4	-66.5	76.5	1103.3	-1480.5	1639.7	.235	.213	.195	.145	37.5	78.5
230	92.0	63.3	121.8	65.7	-68.3	78.7	1164.7	-1599.3	1725.6	.230	.208	.190	.141	39.3	82.0
240	96.0	63.7	126.0	66.0	-70.2	81.0	1226.1	-1722.6	1811.6	.226	.204	.186	.137	41.1	85.5
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.2813 x wL	1.6146 x wL	.6042 x wL	-.7188 x wL	.8958 x wL	.0396 x wL^2	-.2188 x wL^2	.1825 x wL^2					.2813 x L	.8958 x L

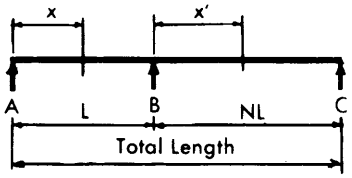
N=1.6

TABLE 2.6

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.



Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	23.1	42.2	65.6	49.8	-48.1	58.1	159.8	-246.0	298.3	.300	.300	.300	.270	10.4	23.8
70	26.9	45.0	67.8	52.6	-51.1	60.8	205.2	-297.4	379.6	.300	.300	.297	.256	9.6	26.2
80	30.8	47.7	69.2	54.8	-53.2	62.7	252.5	-357.5	463.3	.300	.300	.287	.244	11.2	29.9
90	34.6	50.1	70.4	56.6	-55.2	64.0	301.1	-416.2	548.0	.300	.294	.277	.233	12.9	33.6
100	38.5	52.1	71.4	58.1	-57.2	65.1	355.8	-473.7	633.3	.300	.286	.268	.222	15.9	37.3
110	42.3	53.7	73.0	59.3	-58.9	65.9	413.0	-530.5	719.2	.299	.278	.259	.213	17.5	40.9
120	46.2	55.2	77.2	60.3	-60.2	66.6	470.6	-586.6	805.5	.292	.270	.251	.204	19.2	44.6
130	50.0	56.4	81.4	61.2	-61.2	67.1	528.6	-642.2	892.1	.286	.263	.244	.196	20.9	48.2
140	53.8	57.4	85.5	61.9	-62.1	67.6	586.9	-710.0	978.9	.280	.256	.237	.189	22.6	51.8
150	57.7	58.4	89.7	62.6	-62.9	67.9	645.4	-795.5	1065.8	.274	.250	.230	.182	24.2	55.4
160	61.5	59.2	93.9	63.2	-63.6	68.3	704.0	-885.7	1152.9	.268	.244	.224	.175	25.9	59.1
170	65.4	59.9	98.1	63.7	-64.2	68.5	762.8	-980.5	1240.2	.263	.238	.218	.169	27.6	62.7
180	69.2	60.6	102.3	64.1	-64.7	68.8	821.8	-1079.9	1327.5	.257	.233	.212	.164	29.3	66.3
190	73.1	61.2	106.4	64.5	-65.1	70.6	880.8	-1184.0	1414.9	.252	.227	.207	.159	31.1	69.9
200	76.9	61.7	110.6	64.9	-65.5	72.9	940.0	-1292.7	1502.4	.248	.222	.202	.154	32.8	73.5
210	80.8	62.2	114.8	65.2	-65.9	75.3	999.2	-1406.0	1590.0	.243	.217	.197	.149	34.5	77.1
220	84.6	62.6	119.0	65.5	-66.3	77.6	1058.5	-1524.0	1677.6	.239	.213	.192	.145	36.2	80.7
230	88.5	63.0	123.2	65.8	-68.2	80.0	1117.8	-1646.6	1765.2	.234	.208	.188	.141	37.9	84.3
240	92.3	63.4	127.3	66.1	-70.0	82.3	1177.2	-1773.9	1852.9	.230	.204	.183	.137	39.6	87.9
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.2550 x wL	1.6981 x wL	.6469 x wL	-.7450 x wL	.9531 x wL	.0325 x wL^2	-.2450 x wL^2	.2092 x wL^2					.2550 x L	.9531 x L

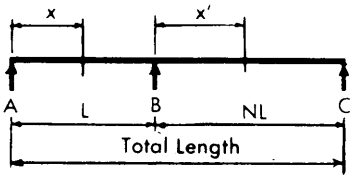
N=1.7

TABLE 2.7

Two-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.

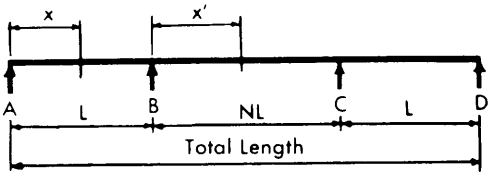


Total Length Ft.	Short Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
60	22.2	41.6	66.2	50.1	-47.4	58.6	154.7	-258.1	306.2	.300	.300	.300	.270	10.0	24.4
70	25.9	44.5	68.3	52.9	-50.4	61.2	194.3	-314.3	390.3	.300	.300	.296	.256	9.2	26.9
80	29.6	47.0	70.1	55.1	-52.6	63.0	239.7	-377.0	475.6	.300	.300	.285	.244	10.8	30.7
90	33.3	49.4	71.5	56.9	-54.4	64.4	286.5	-438.1	561.9	.300	.294	.275	.233	12.4	34.5
100	37.0	51.5	72.4	58.3	-56.5	65.4	337.0	-498.2	648.9	.300	.286	.266	.222	15.3	38.2
110	40.7	53.2	73.8	59.5	-58.1	66.2	392.2	-557.5	736.4	.300	.278	.257	.213	16.9	42.0
120	44.4	54.6	78.1	60.5	-59.5	66.8	447.9	-616.0	824.3	.295	.270	.249	.204	18.5	45.7
130	48.1	55.9	82.3	61.4	-60.6	67.3	504.0	-674.1	912.4	.289	.263	.242	.196	20.1	49.4
140	51.9	57.0	86.5	62.1	-61.6	67.8	560.3	-731.8	1000.8	.283	.256	.235	.189	21.8	53.2
150	55.6	57.9	90.8	62.7	-62.4	68.1	616.9	-818.0	1089.4	.277	.250	.228	.182	23.4	56.9
160	59.3	58.8	95.0	63.3	-63.1	68.4	673.6	-911.0	1178.1	.271	.244	.221	.175	25.0	60.6
170	63.0	59.5	99.2	63.8	-63.7	68.7	730.5	-1008.8	1266.9	.266	.238	.215	.169	26.7	64.3
180	66.7	60.2	103.5	64.3	-64.2	69.1	787.5	-1111.4	1355.8	.261	.233	.210	.164	28.3	68.0
190	70.4	60.8	107.7	64.7	-64.7	71.5	844.6	-1218.8	1444.8	.256	.227	.204	.159	30.0	71.7
200	74.1	61.4	111.9	65.0	-65.1	73.9	901.8	-1331.0	1533.9	.251	.222	.199	.154	31.6	75.4
210	77.8	61.9	116.2	65.4	-65.5	76.3	959.1	-1448.0	1623.1	.247	.217	.194	.149	33.3	79.1
220	81.5	62.3	120.4	65.7	-66.3	78.7	1016.5	-1569.9	1712.2	.242	.213	.190	.145	34.9	82.8
230	85.2	62.7	124.6	65.9	-68.2	81.1	1073.9	-1696.5	1801.5	.238	.208	.185	.141	36.6	86.5
240	88.9	63.1	128.8	66.7	-70.0	83.5	1131.3	-1827.9	1890.8	.234	.204	.181	.137	38.2	90.2
Impact		I	IV	III	I	III	I	II	III						
Dead Load		.2263 x wL	1.7848 x wL	.6890 x wL	-.7738 x wL	1.0110 x wL	.0256 x wL^2	-.2737 x wL^2	.2373 x wL^2					.2263 x L	1.0110 x L

TABLE 3.0

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.0

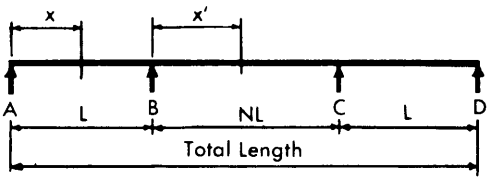


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	30.0	46.2	62.3	-53.0	49.6	228.1	-184.4	179.6	.300	.300	.300	.270	10.6	14.0
105	35.0	49.3	64.7	-56.5	53.1	286.6	-219.5	231.6	.300	.300	.300	.256	12.6	16.0
120	40.0	51.8	66.4	-59.0	55.7	352.4	-254.2	285.9	.300	.300	.300	.244	16.0	18.5
135	45.0	53.9	67.5	-60.8	57.8	422.2	-299.2	342.1	.294	.294	.294	.233	18.0	21.0
150	50.0	55.5	68.4	-62.3	59.4	492.8	-351.1	399.7	.286	.286	.286	.222	20.1	23.5
165	55.0	56.9	69.1	-63.4	60.8	564.0	-406.8	458.2	.278	.278	.278	.213	22.2	26.0
180	60.0	58.1	72.1	-64.3	61.9	635.7	-466.2	517.5	.270	.270	.270	.204	24.2	28.5
195	65.0	59.2	75.9	-65.1	62.8	707.6	-529.3	577.3	.263	.263	.263	.196	26.3	31.0
210	70.0	60.0	79.8	-65.7	63.6	779.9	-596.1	637.6	.256	.256	.256	.189	28.4	33.5
225	75.0	60.8	83.6	-66.2	64.2	852.3	-666.7	698.2	.250	.250	.250	.182	30.5	36.0
240	80.0	61.5	87.4	-66.6	64.8	924.9	-741.0	759.2	.244	.244	.244	.175	32.6	38.5
255	85.0	62.1	91.3	-67.0	65.3	997.6	-819.1	820.3	.238	.238	.238	.169	34.8	41.0
270	90.0	62.6	95.1	-67.4	65.7	1070.5	-900.9	881.7	.233	.233	.233	.164	36.9	43.5
285	95.0	63.1	99.0	-67.7	66.1	1143.4	-986.4	943.2	.227	.227	.227	.159	39.0	46.0
300	100.0	63.6	102.8	-67.9	66.4	1216.5	-1075.6	1004.9	.222	.222	.222	.154	41.1	48.5
315	105.0	64.0	106.6	-68.2	66.7	1289.6	-1168.6	1066.8	.217	.217	.217	.149	43.3	51.0
330	110.0	64.3	110.5	-69.4	67.1	1362.7	-1265.3	1128.7	.213	.213	.213	.145	45.4	53.5
345	115.0	64.6	114.3	-71.4	68.9	1436.0	-1365.8	1190.7	.208	.208	.208	.141	47.5	56.0
360	120.0	64.9	118.2	-73.4	70.8	1509.2	-1469.9	1252.8	.204	.204	.204	.137	49.6	58.5
Impact		I	IV	I	III	I	II	III						
Dead Load		.4000 x wL	1.1000 x wL	-.6000 x wL	.5000 x wL	.0800 x wL	-.1000 x wL^2	.0250 x wL^2					.4000 x L	.5000 x L

TABLE 3.1

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.1

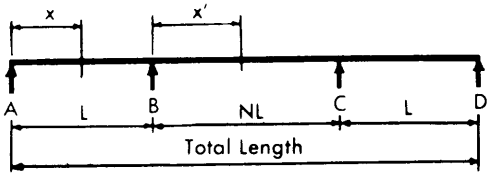


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	29.0	45.7	62.2	-52.0	51.1	219.1	-185.2	195.6	.300	.300	.300	.269	10.3	14.5
105	33.9	48.8	64.6	-55.7	54.4	275.9	-219.4	250.4	.300	.300	.300	.255	12.2	17.1
120	38.7	51.4	66.2	-58.3	56.9	338.2	-254.0	308.0	.300	.300	.298	.242	15.6	19.8
135	43.5	53.4	67.3	-60.2	58.8	406.2	-302.8	367.4	.297	.293	.289	.231	17.5	22.5
150	48.4	55.2	68.2	-61.7	60.4	475.0	-355.4	428.0	.288	.284	.281	.221	19.5	25.1
165	53.2	56.6	68.8	-62.9	61.6	544.3	-411.8	489.7	.281	.276	.272	.211	21.6	27.8
180	58.1	57.8	72.5	-63.8	62.7	614.2	-472.1	552.0	.273	.269	.265	.202	23.6	30.4
195	62.9	58.9	76.3	-64.6	63.5	684.3	-536.1	614.9	.266	.262	.257	.194	25.6	33.1
210	67.7	59.8	80.2	-65.3	64.2	754.7	-603.9	678.3	.259	.255	.251	.187	27.7	35.8
225	72.6	60.6	84.1	-65.8	64.8	825.3	-675.5	741.9	.253	.248	.244	.180	29.7	38.4
240	77.4	61.2	87.9	-66.3	65.4	896.1	-750.9	805.9	.247	.242	.238	.174	31.8	41.1
255	82.3	61.9	91.8	-66.7	65.8	967.0	-830.1	870.1	.241	.237	.232	.168	33.8	43.7
270	87.1	62.4	95.7	-67.1	66.2	1038.1	-913.2	934.5	.236	.231	.226	.162	35.9	46.4
285	91.9	62.9	99.5	-67.4	66.6	1109.2	-999.9	999.1	.230	.226	.221	.157	38.0	49.1
300	96.8	63.4	103.4	-67.7	66.9	1180.5	-1090.5	1063.8	.225	.221	.216	.152	40.0	51.7
315	101.6	63.8	107.3	-67.9	67.2	1251.8	-1184.9	1128.6	.221	.216	.211	.148	42.1	54.4
330	106.5	64.1	111.2	-68.7	68.5	1323.1	-1283.1	1193.6	.216	.211	.207	.143	44.2	57.1
345	111.3	64.5	115.0	-70.6	70.4	1394.5	-1385.1	1258.6	.212	.207	.202	.139	46.2	59.7
360	116.1	64.8	118.9	-72.6	72.3	1466.0	-1490.9	1323.7	.207	.202	.198	.136	48.3	62.4
Impact		I	IV	I	III	I	II	III						
Dead Load		.3900 x wL	1.1600 x wL	-.6100 x wL	.5500 x wL	.0761 x wL^2	-.1100 x wL^2	.0413 x wL^2					.3900 L	.5500 x L

TABLE 3.2

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.2

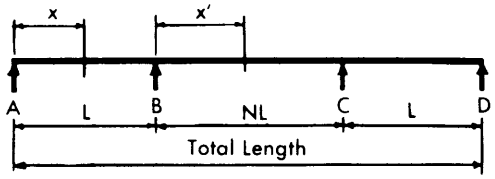


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft..			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	28.1	45.1	62.3	-51.1	52.3	210.5	-188.8	209.9	.300	.300	.300	.268	10.0	15.4
105	32.8	48.3	64.6	-54.8	55.5	265.7	-223.7	267.7	.300	.300	.300	.254	11.8	18.2
120	37.5	50.9	66.2	-57.5	57.9	324.6	-258.4	328.2	.300	.300	.294	.241	15.1	21.0
135	42.2	53.0	67.3	-59.6	59.7	390.8	-308.2	390.5	.299	.292	.285	.230	17.0	23.9
150	46.9	54.8	68.2	-61.1	61.2	457.8	-362.0	454.0	.291	.283	.276	.219	19.0	26.7
165	51.6	56.2	69.0	-62.4	62.4	525.4	-419.6	518.5	.283	.275	.268	.210	21.0	29.5
180	56.3	57.5	72.9	-63.4	63.3	593.5	-481.1	583.7	.276	.268	.260	.201	23.0	32.3
195	60.9	58.6	76.8	-64.2	64.1	661.9	-546.5	649.4	.269	.260	.252	.193	24.9	35.1
210	65.6	59.5	80.8	-64.9	64.8	730.5	-615.8	715.5	.262	.254	.245	.186	26.9	37.9
225	70.3	60.3	84.7	-65.5	65.4	799.4	-689.0	782.0	.256	.247	.239	.179	28.9	40.7
240	75.0	61.0	88.6	-66.0	65.9	868.5	-766.1	848.7	.250	.241	.233	.172	30.9	43.5
255	79.7	61.6	92.5	-66.4	66.3	937.7	-847.1	915.7	.244	.235	.227	.166	32.9	46.3
270	84.4	62.2	96.4	-66.8	66.7	1007.0	-932.0	982.9	.239	.230	.221	.161	35.0	49.2
285	89.1	62.7	100.3	-67.1	67.0	1076.4	-1020.8	1050.2	.234	.224	.216	.156	37.0	52.0
300	93.8	63.2	104.2	-67.4	67.3	1145.8	-1113.5	1117.7	.229	.219	.211	.151	39.0	54.8
315	98.4	63.6	108.1	-67.6	67.9	1215.4	-1210.1	1185.3	.224	.214	.206	.146	41.0	57.6
330	103.1	63.9	112.0	-68.1	69.9	1285.0	-1310.6	1252.9	.219	.210	.201	.142	43.0	60.4
345	107.8	64.3	115.9	-70.1	71.9	1354.7	-1414.9	1320.7	.215	.205	.197	.138	45.0	63.2
360	112.5	64.6	119.9	-72.0	73.9	1424.4	-1523.2	1388.6	.211	.201	.192	.134	47.1	66.0
Impact		I	IV	I	III	I	II	III						
Dead Load		.3782 x wL	1.2218 x wL	-.6218 x wL	.6000 x wL	.0715 x wL^2	-.1218 x wL^2	.0582 x wL^2					.3782 x L	.6000 x L

TABLE 3.3

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.3

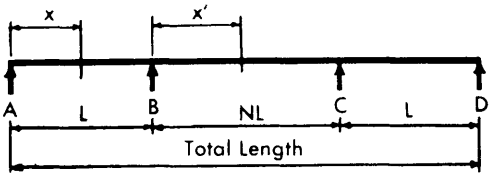


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	27.3	44.7	62.6	-50.4	53.4	202.3	-192.8	223.1	.300	.300	.300	.266	9.7	16.3
105	31.8	47.8	64.8	-54.0	56.4	255.8	-228.3	283.7	.300	.300	.300	.252	11.5	19.3
120	36.4	50.4	66.4	-56.8	58.7	311.5	-264.0	346.9	.300	.300	.290	.240	14.7	22.2
135	40.9	52.6	67.5	-58.9	60.5	376.0	-315.1	411.8	.300	.291	.281	.228	16.6	25.2
150	45.5	54.4	68.3	-60.6	61.9	441.3	-370.3	478.0	.293	.282	.272	.218	18.5	28.1
165	50.0	55.9	69.5	-61.9	63.0	507.3	-429.4	545.0	.286	.274	.263	.208	20.4	31.1
180	54.5	57.2	73.5	-62.9	63.9	573.6	-492.6	612.8	.278	.266	.255	.200	22.3	34.0
195	59.1	58.2	77.4	-63.8	64.6	640.4	-559.8	681.1	.272	.259	.248	.192	24.3	37.0
210	63.6	59.2	81.4	-64.5	65.3	707.3	-631.1	749.8	.265	.252	.241	.184	26.2	39.9
225	68.2	60.0	85.4	-65.1	65.8	774.5	-706.3	818.8	.259	.246	.234	.177	28.2	42.9
240	72.7	60.7	89.3	-65.6	66.3	841.9	-785.6	888.1	.253	.240	.228	.171	30.1	45.8
255	77.3	61.4	93.3	-66.1	66.7	909.4	-868.9	957.6	.247	.234	.222	.165	32.1	48.8
270	81.8	62.0	97.2	-66.5	67.0	977.1	-956.2	1027.3	.242	.228	.216	.160	34.1	51.7
285	86.4	62.5	101.2	-66.8	67.3	1044.8	-1047.6	1097.2	.237	.223	.211	.154	36.0	54.7
300	90.9	62.9	105.2	-67.1	67.6	1112.6	-1142.9	1167.2	.232	.218	.206	.150	38	57.7
315	95.5	63.4	109.1	-67.4	69.3	1180.5	-1242.5	1237.3	.227	.213	.201	.145	40.0	60.6
330	100.0	63.8	113.1	-67.7	71.3	1248.4	-1346.0	1307.5	.222	.208	.196	.141	41.9	63.6
345	104.5	64.1	117.0	-69.6	73.4	1316.4	-1453.4	1377.8	.218	.204	.192	.137	43.9	66.5
360	109.1	64.4	121.0	-71.5	75.4	1384.5	-1564.9	1448.2	.214	.200	.187	.133	45.9	69.5
Impact		I	IV	I	III	I	II	III						
Dead Load		.3645 x wL	1.2855 x wL	-.6355 x wL	.6500 x wL	.0664 x wL^2	-.1355 x wL^2	.0758 x wL^2					.3645 x L	.6500 x L

TABLE 3.4

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.4

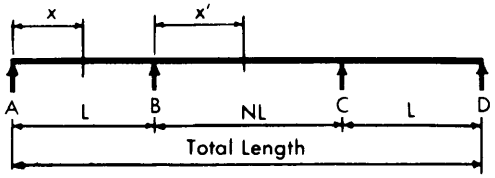


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.				Impact Coefficient			Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	26.5	44.3	62.9	-49.7	54.3	194.4	-196.9	235.4	.300	.300	.300	.265	9.4	17.1
105	30.9	47.3	65.1	-53.2	57.3	246.4	-233.2	298.5	.300	.300	.297	.251	11.1	20.2
120	35.3	50.0	66.7	-56.1	59.5	300.3	-270.6	364.1	.300	.299	.287	.238	13.0	23.3
135	39.7	52.2	67.8	-58.3	61.1	361.8	-323.2	431.5	.300	.290	.277	.227	16.2	26.4
150	44.1	54.0	68.6	-60.0	62.5	425.5	-380.0	500.1	.296	.281	.268	.217	18.0	29.5
165	48.5	55.5	70.1	-61.3	63.5	489.8	-441.0	569.5	.288	.273	.259	.207	19.9	32.6
180	52.9	56.8	74.1	-62.4	64.4	554.6	-506.1	639.7	.281	.265	.251	.198	21.8	35.6
195	57.4	57.9	78.1	-63.3	65.1	619.7	-575.3	710.3	.274	.258	.244	.190	23.6	38.7
210	61.8	58.9	82.1	-64.1	65.7	685.1	-648.9	781.4	.268	.251	.236	.183	25.6	41.8
225	66.2	59.7	86.1	-64.7	66.2	750.7	-726.6	852.8	.262	.245	.230	.176	27.5	44.9
240	70.6	60.5	90.2	-65.3	66.6	816.4	-808.4	924.4	.256	.238	.223	.170	29.4	48.0
255	75.0	61.1	94.2	-65.7	67.0	882.3	-894.4	996.3	.250	.233	.217	.164	31.3	51.1
270	79.4	61.7	98.2	-66.2	67.3	948.3	-984.6	1068.4	.245	.227	.212	.158	33.2	54.2
285	83.8	62.3	102.2	-66.5	67.6	1014.5	-1079.0	1140.6	.239	.222	.206	.153	35.1	57.3
300	88.2	62.7	106.2	-66.8	68.5	1080.7	-1177.5	1212.9	.234	.217	.201	.148	37.0	60.3
315	92.6	63.2	110.2	-67.1	70.6	1147.0	-1280.2	1285.3	.230	.212	.196	.144	38.9	63.4
330	97.1	63.6	114.2	-67.5	72.7	1213.3	-1387.1	1357.9	.225	.207	.192	.140	40.9	66.5
345	101.5	63.9	118.2	-69.4	74.9	1279.7	-1498.2	1430.5	.221	.203	.187	.136	42.8	69.6
360	105.9	64.3	122.2	-71.2	77.0	1346.2	-1613.5	1503.2	.217	.198	.183	.132	44.7	72.7
Impact		I	IV	I	III	I	II	III						
Dead Load		.3490 x wL	1.3510 x wL	-.6510 x wL	.7000 x wL	.0609 x wL^2	-.1510 x wL^2	.0940 x wL^2					.3490 x L	.7000 x L

TABLE 3.5

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.5

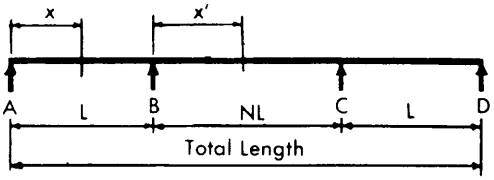


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	25.7	43.9	63.3	-49.1	55.1	186.8	-201.3	246.8	.300	.300	.300	.264	9.1	17.9
105	30.0	46.8	65.5	-52.4	58.0	237.4	-238.3	312.2	.300	.300	.294	.250	10.8	21.1
120	34.3	49.5	67.0	-55.4	60.1	289.9	-283.7	380.1	.300	.298	.283	.237	12.6	24.3
135	38.6	51.8	68.1	-57.7	61.7	348.2	-333.9	449.8	.300	.289	.273	.226	15.7	27.5
150	42.9	53.6	68.9	-59.4	63.0	410.3	-390.9	520.6	.298	.280	.264	.215	17.5	30.7
165	47.1	55.2	70.7	-60.8	64.0	473.1	-453.9	592.3	.290	.272	.255	.206	19.4	34.0
180	51.4	56.5	74.8	-62.0	64.8	536.3	-521.2	664.6	.283	.264	.247	.197	21.2	37.2
195	55.7	57.6	78.9	-62.9	65.5	599.9	-592.9	737.4	.277	.257	.240	.189	23.0	40.4
210	60.0	58.6	82.9	-63.7	66.1	663.7	-668.9	810.7	.270	.250	.233	.182	24.9	43.6
225	64.3	59.5	87.0	-64.4	66.5	727.7	-749.2	884.3	.264	.243	.226	.175	26.8	46.8
240	68.6	60.2	91.1	-64.9	66.9	791.9	-834.0	958.1	.258	.237	.219	.169	28.6	50.0
255	72.9	60.9	95.1	-65.4	67.3	856.3	-923.0	1032.1	.253	.231	.213	.163	30.5	53.2
270	77.1	61.5	99.2	-65.9	67.6	920.8	-1016.4	1106.4	.247	.226	.208	.157	32.3	56.5
285	81.4	62.0	103.3	-66.2	67.9	985.4	-1114.1	1180.7	.242	.220	.202	.152	34.2	59.7
300	85.7	62.5	107.3	-66.6	69.8	1050.1	-1216.2	1255.2	.237	.215	.197	.147	36.1	62.9
315	90.0	63.0	111.4	-66.9	71.9	1114.8	-1322.7	1329.8	.233	.211	.192	.143	38.0	66.1
330	94.3	63.4	115.5	-67.3	74.1	1179.6	-1433.4	1404.5	.228	.206	.188	.139	39.8	69.3
345	98.6	63.7	119.5	-69.2	76.3	1244.5	-1548.6	1479.3	.224	.201	.183	.135	41.7	72.5
360	102.9	64.1	123.6	-71.1	78.5	1309.4	-1668.0	1554.2	.219	.197	.179	.131	43.6	75.7
Impact		I	IV	I	III	I	II	III						
Dead Load		.3317 x wL	1.4183 x wL	-.6683 x wL	.7500 x wL	.0550 x wL^2	-.1682 x wL^2	.1130 x wL^2					.3317 x L	.7500 x L

TABLE 3.6

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

N=1.6

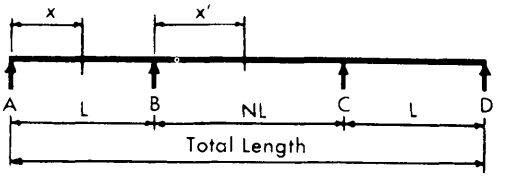


Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	25.0	43.5	63.8	-48.5	55.9	179.6	-205.7	257.4	.300	.300	.300	.263	8.8	18.6
105	29.2	46.3	66.0	-51.6	58.6	228.8	-250.3	325.0	.300	.300	.291	.249	10.5	22.0
120	33.3	49.1	67.5	-54.7	60.7	279.9	-304.8	395.0	.300	.297	.280	.236	12.2	25.3
135	37.5	51.3	68.6	-57.1	62.2	335.1	-357.6	466.7	.300	.288	.270	.225	15.3	28.6
150	41.7	53.2	69.3	-58.9	63.4	395.8	-409.1	539.6	.300	.279	.261	.214	17.1	32.0
165	45.8	54.8	71.4	-60.3	64.4	457.0	-467.7	613.4	.293	.271	.252	.205	18.9	35.3
180	50.0	56.2	75.5	-61.5	65.2	518.8	-537.4	687.8	.286	.263	.244	.196	20.7	38.6
195	54.2	57.3	79.6	-62.5	65.8	580.8	-611.6	767.7	.279	.256	.236	.188	22.5	42.0
210	58.3	58.3	83.8	-63.3	66.4	643.2	-690.3	837.9	.273	.249	.229	.181	24.3	45.3
225	62.5	59.2	87.9	-64.0	66.8	705.7	-773.5	913.5	.267	.242	.222	.174	26.1	48.6
240	66.7	60.0	92.0	-64.6	67.2	768.5	-861.3	989.4	.261	.236	.216	.168	27.9	51.9
255	70.8	60.7	96.1	-65.1	67.6	831.4	-953.6	1065.4	.255	.230	.210	.162	29.7	55.3
270	75.0	61.3	100.3	-65.6	67.9	894.4	-1050.7	1141.7	.250	.225	.204	.156	31.6	58.6
285	79.2	61.8	104.4	-66.0	68.7	957.5	-1151.9	1218.1	.245	.219	.199	.151	33.4	62.0
300	83.3	62.3	108.5	-66.3	71.0	1020.7	-1257.8	1294.6	.240	.214	.194	.146	35.2	65.3
315	87.5	62.8	112.6	-66.6	73.2	1083.9	-1368.3	1371.2	.235	.209	.189	.142	37.0	68.6
330	91.7	63.2	116.8	-67.3	75.5	1147.2	-1483.2	1447.9	.231	.205	.184	.138	38.9	72.0
345	95.8	63.6	120.9	-69.2	77.7	1210.6	-1602.7	1524.7	.226	.200	.180	.134	40.7	75.3
360	100.0	63.9	125.0	-71.0	80.0	1274.1	-1726.7	1601.6	.222	.196	.175	.130	42.5	78.6
Impact		I	IV	I	III	I	II	III						
Dead Load		.3126 x wL	1.4874 x wL	-.6874 x wL	.8000 x wL	.0489 x wL^2	-.1874 x wL^2	.1326 x wL^2					.3126 x L	.8000 x L

TABLE 3.7

Symmetrical three-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

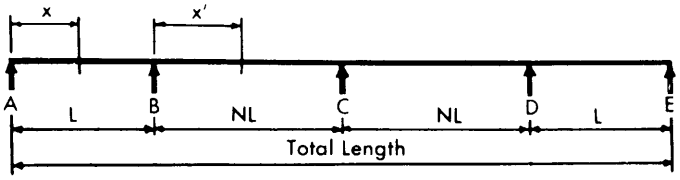
N=1.7



Total Length Ft.	Exter. Span Length "L"	Max. Reaction Kips.		Max. Shear Kips.		Max. Moment Kip.-ft.			Impact Coefficient				Dist.-Ft.	
		at A	at B	in AB at B	in BC at B or C	in AB at X	at B	in BC at X'	I	II	III	IV	X	X'
90	24.3	43.1	64.4	-47.9	56.5	172.7	-210.2	267.3	.300	.300	.300	.262	8.5	19.3
105	28.4	45.8	66.6	-50.8	59.2	220.5	-268.2	336.9	.300	.300	.289	.248	10.2	22.8
120	32.4	48.6	68.0	-54.0	61.2	270.3	-325.2	408.9	.300	.296	.278	.235	11.9	26.2
135	36.5	50.9	69.1	-56.5	62.7	322.6	-380.5	482.6	.300	.278	.267	.224	14.9	29.7
150	40.5	52.8	69.8	-58.3	63.8	381.8	-434.4	557.4	.300	.278	.258	.213	16.7	33.1
165	44.6	54.4	72.1	-59.8	64.8	441.6	-487.4	633.1	.295	.270	.249	.204	18.4	36.5
180	48.6	55.8	76.3	-61.1	65.5	501.9	-554.5	709.4	.288	.262	.241	.195	20.2	40.0
195	52.7	57.0	80.4	-62.1	66.1	562.6	-631.4	786.2	.281	.255	.233	.187	21.9	43.4
210	56.8	58.0	84.6	-62.9	66.6	623.5	-713.0	863.3	.275	.248	.226	.180	23.7	46.9
225	60.8	58.9	88.8	-63.6	67.1	684.6	-799.4	940.8	.269	.241	.219	.173	25.4	50.3
240	64.9	59.7	93.0	-64.3	67.5	745.9	-890.4	1018.6	.263	.235	.213	.167	27.2	53.8
255	68.9	60.4	97.2	-64.8	67.8	807.4	-986.2	1096.5	.258	.229	.206	.161	29.0	57.2
270	73.0	61.0	101.4	-65.3	68.1	869.0	-1086.7	1174.6	.253	.224	.201	.155	30.8	60.7
285	77.0	61.6	105.6	-65.7	69.9	930.7	-1191.9	1252.9	.247	.218	.195	.150	32.6	64.1
300	81.1	62.1	109.8	-66.0	72.2	992.4	-1301.9	1331.3	.243	.213	.190	.145	34.3	67.6
315	85.1	62.6	113.9	-66.4	74.5	1054.3	-1416.5	1409.7	.238	.208	.185	.141	36.1	71.0
330	89.2	63.0	118.1	-67.3	76.8	1116.2	-1535.9	1488.5	.233	.204	.181	.137	37.9	74.4
345	93.2	63.4	122.3	-69.2	79.1	1178.2	-1660.0	1567.0	.229	.199	.176	.133	39.7	77.9
360	97.3	63.7	126.5	-71.1	81.4	1240.2	-1788.8	1645.7	.225	.195	.172	.129	41.5	81.3
Impact		I	IV	I	III	I	II	III						
Dead Load		.2918 x wL	1.5582 x wL	-.7082 x wL	.8500 x wL	.0426 x wL^2	-.2082 x wL^2	.1530 x wL^2					.2918 x L	.8500 x L

TABLE 4.0

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

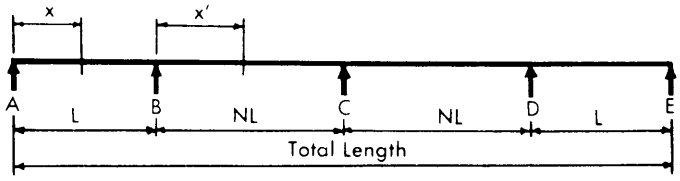


N=1.0

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	30.0	46.2	62.3	60.5	-53.0	49.4	-49.9	227.9	-183.8	177.8	-171.9	.300	.300	.300	.270	.270	10.7	13.5
140	35.0	49.3	64.7	63.2	-56.5	52.8	-53.3	286.3	-218.8	228.4	-204.0	.300	.300	.300	.256	.256	12.9	15.9
160	40.0	51.8	66.4	65.1	-59.0	55.5	-56.0	352.0	-254.5	281.8	-236.0	.300	.300	.300	.244	.244	16.0	18.4
180	45.0	53.8	67.6	66.4	-60.9	57.6	-58.0	421.7	-303.7	337.2	-277.9	.294	.294	.294	.233	.233	18.1	20.9
200	50.0	55.5	68.4	67.4	-62.3	59.2	-59.7	492.3	-356.8	393.9	-325.9	.286	.286	.286	.222	.222	20.1	23.3
220	55.0	56.9	69.1	68.1	-63.4	60.6	-61.0	563.4	-413.6	451.6	-377.4	.278	.278	.278	.213	.213	22.2	25.8
240	60.0	58.1	73.0	69.9	-64.3	61.7	-62.1	635.0	-474.4	510.1	-432.2	.270	.270	.270	.204	.204	24.3	28.2
260	65.0	59.1	76.9	73.5	-65.1	62.6	-63.0	706.9	-539.0	569.1	-490.5	.263	.263	.263	.196	.196	26.4	30.7
280	70.0	60.0	80.8	77.2	-65.7	63.4	-63.8	779.0	-607.5	628.6	-552.3	.256	.256	.256	.189	.189	28.4	33.2
300	75.0	60.8	84.7	80.9	-66.2	64.1	-64.4	851.4	-679.8	688.5	-617.4	.250	.250	.250	.182	.182	30.6	35.6
320	80.0	61.5	88.6	84.5	-66.7	64.7	-65.0	923.9	-756.0	748.6	-686.0	.244	.244	.244	.175	.175	32.7	38.2
340	85.0	62.1	92.5	88.2	-67.0	65.2	-65.5	996.6	-836.0	809.1	-758.1	.238	.238	.238	.169	.169	34.9	40.6
360	90.0	62.6	96.5	91.8	-67.4	65.6	-65.9	1069.4	-919.9	869.7	-833.5	.233	.233	.233	.164	.164	37.0	43.1
380	95.0	63.1	100.4	95.5	-67.7	66.0	-66.3	1142.3	-1007.6	930.5	-912.4	.227	.227	.227	.159	.159	39.1	45.5
400	100.0	63.6	104.3	99.1	-67.9	66.3	-66.6	1215.3	-1099.2	991.4	-994.7	.222	.222	.222	.154	.154	41.1	48.0
420	105.0	63.9	108.2	102.8	-68.2	66.7	-66.9	1288.3	-1194.7	1052.5	-1080.4	.217	.217	.217	.149	.149	43.2	50.5
440	110.0	64.3	112.1	106.5	-69.7	68.4	-67.2	1361.4	-1294.0	1113.7	-1169.6	.213	.213	.213	.145	.145	45.5	53.0
460	115.0	64.6	116.0	110.1	-71.7	70.4	-68.1	1434.6	-1397.2	1175.0	-1262.2	.208	.208	.208	.141	.141	47.5	55.4
480	120.0	64.9	119.9	113.8	-73.7	72.3	-69.9	1507.7	-1504.2	1236.3	-1358.2	.204	.204	.204	.137	.137	49.6	57.9
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3929 x wL	1.1429 x wL	.9286 x wL	-.6071 x wL	.5357 x wL	-.4643 x wL	.0772 x wL^2	-.1071 x wL^2	.0364 x wL^2	-.0714 x wL^2						.3929 x L	.5357 x L

TABLE 4.1

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

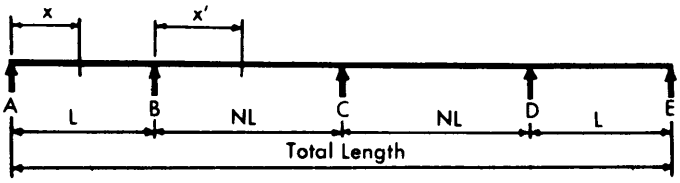


N=1.1

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	28.6	45.3	61.9	61.3	-51.6	50.6	-50.8	213.8	-181.7	189.7	-179.9	.300	.300	.300	.270	.266	10.2	14.2
140	33.3	48.5	64.3	63.8	-55.3	54.0	-54.1	269.4	-215.2	243.0	-213.3	.300	.300	.300	.256	.252	12.1	16.8
160	38.1	51.1	66.0	65.5	-58.0	56.5	-56.7	329.6	-251.8	299.1	-248.0	.300	.300	.300	.244	.239	15.3	19.5
180	42.9	53.2	67.2	66.8	-60.0	58.5	-58.7	396.3	-300.3	357.0	-295.8	.298	.294	.290	.233	.228	17.3	22.0
200	47.6	54.9	68.1	67.7	-61.5	60.1	-60.2	463.8	-352.7	416.3	-347.3	.290	.286	.282	.222	.218	19.2	24.7
220	52.4	56.4	68.7	68.4	-62.7	61.4	-61.5	532.0	-408.9	476.5	-402.5	.282	.278	.274	.213	.208	21.3	27.3
240	57.1	57.6	72.5	71.7	-63.7	62.4	-62.6	600.6	-468.8	537.5	-461.5	.275	.270	.266	.204	.199	23.3	29.9
260	61.9	58.6	76.4	75.6	-64.5	63.3	-63.4	669.6	-532.6	599.0	-524.2	.268	.263	.259	.196	.191	25.2	32.5
280	66.7	59.6	80.3	79.4	-65.1	64.0	-64.2	738.8	-600.2	661.0	-590.6	.261	.256	.252	.189	.184	27.2	35.1
300	71.4	60.4	84.2	83.2	-65.7	64.7	-64.8	808.2	-671.5	723.3	-660.7	.255	.250	.246	.182	.177	29.3	37.8
320	76.2	61.1	88.1	87.0	-66.2	65.2	-65.3	877.8	-746.7	786.0	-734.6	.249	.244	.239	.175	.171	31.3	40.3
340	81.0	61.7	91.9	90.8	-66.6	65.7	-65.8	947.6	-825.6	848.8	-812.2	.243	.238	.234	.169	.165	33.4	42.9
360	85.7	62.3	95.8	94.6	-67.0	66.1	-66.2	1017.4	-908.4	911.9	-893.6	.237	.233	.228	.164	.159	35.4	45.6
380	90.5	62.8	99.7	98.4	-67.3	66.5	-66.6	1087.4	-995.0	975.2	-978.6	.232	.227	.223	.159	.154	37.4	48.1
400	95.2	63.2	103.6	102.2	-67.6	66.8	-66.9	1157.4	-1085.3	1038.5	-1067.4	.227	.222	.218	.154	.149	39.5	50.7
420	100.0	63.6	107.4	106.0	-67.8	67.1	-67.2	1227.6	-1179.5	1102.0	-1159.9	.222	.217	.213	.149	.145	41.5	53.3
440	104.8	64.0	111.3	109.9	-68.3	69.0	-67.9	1297.8	-1277.4	1165.7	-1256.2	.218	.213	.208	.145	.141	43.6	55.9
460	109.5	64.3	115.2	113.7	-70.2	71.0	-69.8	1368.0	-1379.2	1229.4	-1356.2	.213	.208	.204	.141	.137	45.5	58.7
480	114.3	64.7	119.1	117.5	-72.1	72.9	-71.7	1438.3	-1484.7	1293.1	-1459.9	.209	.204	.199	.137	.133	47.7	61.2
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3859 x wL	1.1821 x wL	1.0639 x wL	-.6141 x wL	.5681 x wL	-.5319 x wL	.0745 x wL^2	-.1141 x wL^2	.0473 x wL^2	-.0942 x wL^2						.3859 x L	.5681 x L

TABLE 4.2

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

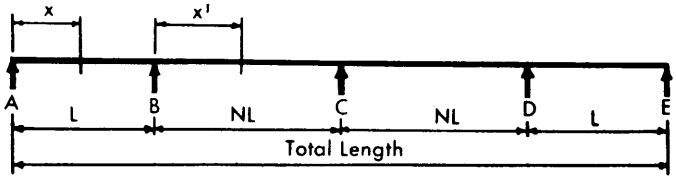


N=1.2

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	27.3	44.5	61.8	61.9	-50.2	51.7	-51.6	200.8	-182.7	200.6	-187.1	.300	.300	.300	.270	.263	9.7	17.9
140	31.8	47.7	64.2	64.3	-54.1	54.9	-54.8	253.8	-216.6	256.3	-221.6	.300	.300	.300	.256	.248	11.5	20.6
160	36.4	50.3	65.9	65.9	-56.9	57.4	-57.3	308.4	-251.1	314.7	-261.5	.300	.300	.296	.244	.236	13.9	23.4
180	40.9	52.5	67.1	67.1	-59.1	59.3	-59.2	372.8	-299.6	374.9	-312.2	.300	.294	.287	.233	.224	16.6	26.1
200	45.5	54.3	68.0	67.9	-60.7	60.8	-60.7	437.6	-351.8	436.5	-367.0	.293	.286	.278	.222	.214	18.4	28.8
220	50.0	55.8	68.6	69.5	-62.0	62.0	-61.9	503.0	-407.8	498.9	-425.7	.286	.278	.270	.213	.204	20.3	31.5
240	54.5	57.1	72.3	73.4	-63.0	63.0	-62.9	568.9	-467.6	562.2	-488.5	.278	.270	.263	.204	.195	22.3	34.3
260	59.1	58.2	76.2	77.4	-63.9	63.9	-63.8	635.1	-531.2	625.9	-555.2	.272	.263	.255	.196	.187	24.2	37.0
280	63.6	59.1	80.0	81.3	-64.6	64.6	-64.5	701.6	-598.6	690.1	-626.0	.265	.256	.248	.189	.180	26.2	39.7
300	68.2	59.9	83.9	85.3	-65.2	65.1	-65.1	768.3	-669.8	754.6	-700.8	.259	.250	.242	.182	.173	28.0	42.5
320	72.7	60.7	87.8	89.2	-65.7	65.7	-65.6	835.2	-744.8	819.4	-779.6	.253	.244	.236	.175	.167	30.0	45.2
340	77.3	61.3	91.6	93.2	-66.2	66.1	-66.0	902.3	-823.5	884.5	-862.4	.247	.238	.230	.169	.161	31.9	48.0
360	81.8	61.9	95.5	97.1	-66.6	66.5	-66.4	969.4	-906.1	949.8	-949.2	.242	.233	.224	.164	.156	33.9	50.8
380	86.4	62.4	99.3	101.1	-66.9	66.8	-66.8	1036.7	-992.4	1015.2	-1040.0	.237	.227	.219	.159	.150	35.9	53.5
400	90.9	62.9	103.2	105.0	-67.2	67.1	-67.1	1104.0	-1082.5	1080.7	-1134.8	.232	.222	.214	.154	.146	37.9	56.2
420	95.5	63.3	107.1	109.0	-67.5	67.8	-67.5	1171.5	-1176.5	1146.4	-1233.7	.227	.217	.209	.149	.141	39.8	59.0
440	100.0	63.7	110.9	112.9	-67.7	69.8	-69.5	1238.9	-1274.2	1212.2	-1336.5	.222	.213	.204	.145	.137	41.8	61.6
460	104.5	64.1	114.8	116.9	-69.0	71.7	-71.4	1306.5	-1375.7	1278.1	-1443.4	.218	.208	.200	.141	.133	43.7	64.4
480	109.1	64.4	118.6	120.8	-70.9	73.7	-73.4	1374.1	-1481.0	1344.0	-1554.2	.214	.204	.195	.137	.129	45.6	67.1
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3774 x wL	1.2259 x wL	1.1934 x wL	-.6226 x wL	.6033 x wL	-.5967 x wL	.0712 x wL^2	-.1226 x wL^2	.0593 x wL^2	-.1187 x wL^2						.3774 x L	.6033 x L

TABLE 4.3

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

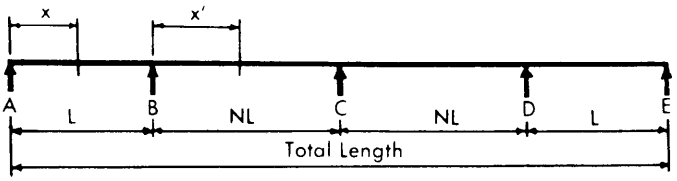


N=1.3

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	26.1	43.7	61.9	62.4	-48.8	52.6	-52.2	188.9	-184.4	210.6	-193.5	.300	.300	.300	.270	.259	9.2	18.5
140	30.4	46.9	64.3	64.7	-52.9	55.8	-55.4	239.5	-218.6	268.4	-229.0	.300	.300	.300	.256	.245	11.0	21.4
160	34.8	49.6	66.0	66.2	-55.9	58.2	-57.8	292.0	-252.7	328.9	-274.0	.300	.300	.294	.244	.232	13.0	24.2
180	39.1	51.8	67.2	67.3	-58.2	60.0	-59.6	351.0	-300.8	391.2	-327.5	.300	.294	.284	.233	.221	15.9	27.1
200	43.5	53.7	68.0	68.2	-59.9	61.4	-61.1	413.2	-353.3	454.8	-385.2	.297	.286	.275	.222	.210	17.7	30.0
220	47.8	55.2	68.7	70.8	-61.3	62.6	-62.3	476.1	-409.6	519.3	-447.2	.289	.278	.267	.213	.201	19.6	32.8
240	52.2	56.5	72.3	74.9	-62.4	63.6	-63.2	539.5	-469.7	584.5	-513.5	.282	.270	.259	.204	.192	21.4	35.6
260	56.5	57.7	76.1	79.0	-63.3	64.3	-64.0	603.2	-533.7	650.2	-584.0	.275	.263	.252	.196	.184	23.3	38.5
280	60.9	58.6	80.0	83.1	-64.0	65.0	-64.7	667.1	-601.5	716.4	-658.8	.269	.256	.245	.189	.177	25.1	41.3
300	65.2	59.5	83.8	87.1	-64.7	65.6	-65.3	731.3	-673.1	782.9	-737.9	.263	.250	.238	.182	.170	27.0	44.2
320	69.6	60.3	87.7	91.2	-65.2	66.0	-65.8	795.7	-748.5	849.7	-821.3	.257	.244	.232	.175	.163	28.8	47.0
340	73.9	60.9	91.5	95.3	-65.7	66.5	-66.2	860.3	-827.7	916.7	-908.9	.251	.238	.226	.169	.158	30.8	49.9
360	78.3	61.5	95.4	99.4	-66.1	66.8	-66.6	924.9	-910.7	983.9	-1000.8	.246	.233	.221	.164	.152	32.6	52.7
380	82.6	62.1	99.3	103.4	-66.5	67.2	-66.9	989.7	-997.6	1051.3	-1097.0	.241	.227	.215	.159	.147	34.5	55.7
400	87.0	62.5	103.1	107.5	-66.8	67.4	-67.2	1054.5	-1088.3	1118.8	-1197.4	.236	.222	.210	.154	.142	36.3	58.4
420	91.3	63.0	107.0	111.6	-67.1	68.5	-68.8	1119.4	-1182.8	1186.4	-1302.1	.231	.217	.205	.149	.138	38.3	61.3
440	95.7	63.4	110.8	115.7	-67.4	70.6	-70.8	1184.4	-1281.1	1254.1	-1411.1	.227	.213	.201	.145	.134	40.2	64.1
460	100.0	63.8	114.7	119.7	-68.1	72.6	-72.9	1249.5	-1383.2	1321.9	-1524.4	.222	.208	.196	.141	.130	42.0	67.0
480	104.3	64.1	118.5	123.8	-69.9	74.6	-74.9	1314.6	-1489.2	1389.8	-1641.9	.218	.204	.192	.137	.126	44.0	69.8
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3672 x wL	1.2736 x wL	1.3185 x wL	-.6328 x wL	.6407 x wL	-.6593 x wL	.0674 x wL^2	-.1328 x wL^2	.0725 x wL^2	-.1448 x wL^2						.3672 x L	.6407 x L

TABLE 4.4

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

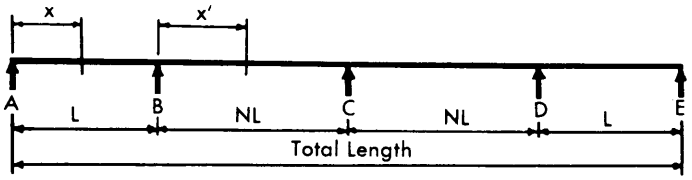


N=1.4

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	25.0	42.8	62.1	62.8	-47.5	53.4	-52.8	177.9	-186.5	219.6	-199.3	.300	.300	.300	.270	.256	8.8	19.1
140	29.2	46.2	64.5	65.0	-51.8	56.5	-55.9	226.2	-221.1	279.4	-235.8	.300	.300	.300	.256	.242	10.5	22.1
160	33.3	48.9	66.2	66.5	-54.9	58.8	-58.2	276.6	-256.2	341.8	-285.5	.300	.300	.291	.244	.229	12.3	25.0
180	37.5	51.2	67.4	67.6	-57.3	60.6	-60.0	330.8	-303.5	405.9	-341.5	.300	.294	.282	.233	.217	15.2	28.0
200	41.7	53.0	68.3	68.3	-59.1	62.0	-61.4	390.6	-356.6	471.3	-402.1	.300	.286	.273	.222	.207	17.0	31.0
220	45.8	54.6	68.9	72.1	-60.5	63.1	-62.6	451.1	-413.6	537.6	-467.1	.293	.278	.264	.213	.197	18.8	33.9
240	50.0	56.0	72.3	76.3	-61.7	64.0	-63.5	512.1	-474.4	604.6	-536.6	.286	.270	.256	.204	.189	20.6	36.9
260	54.2	57.2	76.2	80.5	-62.7	64.8	-64.3	573.5	-539.1	672.1	-610.7	.279	.263	.249	.196	.181	22.4	39.8
280	58.3	58.2	80.1	84.6	-63.5	65.4	-64.9	635.1	-607.7	740.1	-689.3	.273	.256	.242	.189	.173	24.1	42.9
300	62.5	59.1	83.9	88.8	-64.2	65.9	-65.5	697.0	-680.2	808.4	-772.4	.267	.250	.235	.182	.167	25.9	45.8
320	66.7	59.8	87.8	93.0	-64.8	66.4	-66.0	759.0	-756.5	876.9	-860.0	.261	.244	.229	.175	.160	27.7	48.7
340	70.8	60.5	91.6	97.2	-65.3	66.8	-66.4	821.2	-836.7	945.7	-952.1	.255	.238	.223	.169	.155	29.5	51.7
360	75.0	61.2	95.5	101.4	-65.7	67.1	-66.8	883.6	-920.7	1014.7	-1048.8	.250	.233	.217	.164	.149	31.4	54.6
380	79.2	61.7	99.4	105.6	-66.1	67.4	-67.1	946.0	-1008.7	1083.8	-1149.9	.245	.227	.212	.159	.144	33.2	57.6
400	83.3	62.2	103.2	109.8	-66.5	67.7	-67.9	1008.5	-1100.5	1153.1	-1255.6	.240	.222	.207	.154	.140	35.0	60.6
420	87.5	62.7	107.1	114.0	-66.8	69.3	-70.0	1071.1	-1196.2	1222.5	-1365.8	.235	.217	.202	.149	.135	36.8	63.5
440	91.7	63.1	110.9	118.1	-67.0	71.4	-72.1	1133.8	-1295.7	1292.0	-1480.5	.231	.213	.197	.145	.131	38.6	66.5
460	95.8	63.5	114.8	122.3	-67.4	73.5	-74.2	1196.5	-1399.2	1361.5	-1599.7	.226	.208	.193	.141	.127	40.5	69.4
480	100.0	63.8	118.7	126.5	-69.2	75.5	-76.3	1259.3	-1506.5	1431.2	-1723.4	.222	.204	.189	.137	.123	42.2	72.4
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3554 x wL	1.3246 x wL	1.4401 x wL	-.6446 x wL	.6800 x wL	-.7200 x wL	.0631 x wL^2	-.1446 x wL^2	.0865 x wL^2	-.1727 x wL^2						.3554 x L	.6800 x L

TABLE 4.5

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.



N=1.5

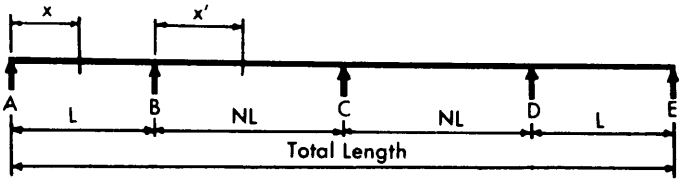
Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	24.0	42.0	62.4	63.2	-46.1	54.1	-53.3	167.6	-193.1	227.9	-204.6	.300	.300	.300	.270	.254	8.4	19.7
140	28.0	45.4	64.9	65.3	-50.6	57.1	-56.3	213.9	-233.1	289.4	-242.6	.300	.300	.299	.256	.239	10.0	22.7
160	32.0	48.2	66.5	66.7	-53.9	59.4	-58.6	262.2	-274.5	353.4	-296.2	.300	.300	.289	.244	.226	11.7	25.8
180	36.0	50.5	67.7	67.7	-56.4	61.1	-60.3	311.4	-321.0	419.3	-354.6	300	.294	.279	.233	.215	14.0	28.9
200	40.0	52.4	68.6	68.9	-58.3	62.4	-61.7	369.6	-366.8	486.3	-417.7	.300	.286	.270	.222	.204	16.4	31.9
220	44.0	54.1	69.3	73.2	-59.8	63.5	-62.8	427.9	-419.2	554.3	-485.6	.296	.278	.262	.213	.195	18.1	35.0
240	48.0	55.5	72.5	77.5	-61.1	64.4	-63.7	486.7	-481.0	622.9	-558.2	.289	.270	.254	.204	.186	19.8	38.1
260	52.0	56.7	76.4	81.8	-62.1	65.1	-64.5	545.8	-546.8	692.1	-635.5	.282	.263	.246	.196	.178	21.5	41.1
280	56.0	57.7	80.3	86.1	-62.9	65.7	-65.1	605.3	-616.5	761.6	-717.6	.276	.256	.239	.189	.171	23.2	44.2
300	60.0	58.6	84.1	90.4	-63.7	66.2	-65.7	665.0	-690.1	831.5	-804.4	.270	.250	.233	.182	.164	24.9	47.2
320	64.0	59.4	88.0	94.7	-64.3	66.7	-66.1	724.9	-767.7	901.7	-896.0	.265	.244	.226	.175	.158	26.7	50.3
340	68.0	60.1	91.9	99.0	-64.8	67.1	-66.5	784.9	-849.3	972.1	-992.3	.259	.238	.220	.169	.152	28.5	53.4
360	72.0	60.8	95.8	103.3	-65.3	67.4	-66.9	845.0	-934.8	1042.7	-1093.4	.254	.233	.215	.164	.147	30.2	56.4
380	76.0	61.4	99.6	107.5	-65.7	67.7	-67.2	905.3	-1024.2	1113.4	-1199.2	.249	.227	.209	.159	.142	31.9	59.5
400	80.0	61.9	103.5	111.8	-66.1	68.0	-68.9	965.7	-1117.6	1184.3	-1309.8	.244	.222	.204	.154	.137	33.7	62.5
420	84.0	62.4	107.4	116.1	-66.4	70.1	-71.1	1026.1	-1215.0	1255.3	-1425.0	.239	.217	.199	.149	.133	35.5	65.6
440	88.0	62.8	111.3	120.4	-66.7	72.2	-73.2	1086.6	-1316.3	1326.3	-1545.1	.235	.213	.195	.145	.129	37.2	68.6
460	92.0	63.2	115.1	124.7	-67.0	74.3	-75.4	1147.1	-1421.5	1397.5	-1669.9	.230	.208	.190	.141	.125	38.9	71.7
480	96.0	63.5	119.0	129.0	-68.6	76.4	-77.5	1207.7	-1530.7	1468.7	-1799.4	.226	.204	.186	.137	.121	40.7	74.9
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3419 x wL	1.3787 x wL	1.5588 x wL	-.6581 x wL	.7206 x wL	-.7794 x wL	.0585 x wL^2	-.1581 x wL^2	.1015 x wL^2	-.2022 x wL^2						.3419 x L	.7206 x L

TABLE 4.6

Symmetrical four-span continuous beam.

Constant moment of inertia.

AASHO HS20-44 loading.

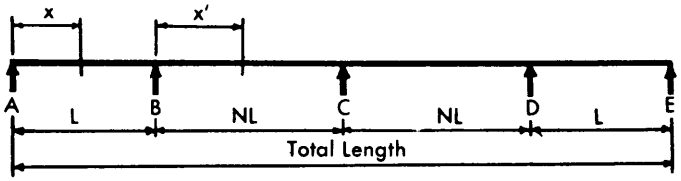


N=1.6

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	23.1	41.2	62.9	63.5	-44.8	54.8	-53.7	158.2	-203.7	235.4	-209.4	.300	.300	.300	.270	.251	8.0	20.2
140	26.9	44.6	65.3	65.5	-49.5	57.7	-56.6	202.4	-245.6	298.5	-250.5	.300	.300	.297	.256	.237	9.6	23.4
160	30.8	47.5	67.0	66.9	-52.9	59.9	-58.9	248.8	-291.9	364.1	-306.2	.300	.300	.287	.244	.224	11.2	26.5
180	34.6	49.8	68.2	67.9	-55.5	61.6	-60.6	296.5	-340.7	431.5	-366.7	.300	.294	.277	.233	.212	13.1	29.7
200	38.5	51.8	69.0	69.9	-57.5	62.9	-61.9	349.9	-388.8	500.0	-432.3	.300	.286	.268	.222	.202	15.7	32.8
220	42.3	53.5	69.7	74.2	-59.1	63.9	-63.0	406.2	-436.2	569.5	-502.8	.299	.278	.259	.213	.192	17.4	36.0
240	46.2	54.9	72.8	78.6	-60.4	64.7	-63.9	462.9	-489.1	639.6	-578.2	.292	.270	.251	.204	.183	19.1	39.2
260	50.0	56.2	76.6	83.0	-61.5	65.4	-64.7	520.0	-556.1	710.3	-658.6	.286	.263	.244	.196	.175	20.7	42.3
280	53.8	57.3	80.5	87.4	-62.4	66.0	-65.3	577.4	-627.2	781.3	-744.0	.280	.256	.237	.189	.168	22.4	45.5
300	57.7	58.2	84.4	91.8	-63.2	66.5	-65.8	635.1	-702.3	852.7	-834.3	.274	.250	.230	.182	.161	24.0	48.7
320	61.5	59.0	88.3	96.2	-63.8	66.9	-66.3	692.9	-781.5	924.3	-929.6	.268	.244	.224	.175	.155	25.7	51.9
340	65.4	59.8	92.2	100.6	-64.4	67.3	-66.7	750.9	-864.7	996.2	-1029.8	.263	.238	.218	.169	.150	27.5	54.9
360	69.2	60.4	96.1	104.9	-64.9	67.6	-67.0	809.1	-951.9	1068.2	-1135.0	.257	.233	.212	.164	.144	29.1	58.1
380	73.1	61.0	100.0	109.3	-65.3	67.9	-67.7	867.3	-1043.2	1140.4	-1245.2	.252	.227	.207	.159	.139	30.8	61.3
400	76.9	61.6	103.9	113.7	-65.7	68.8	-69.9	925.6	-1138.5	1212.7	-1360.3	.248	.222	.202	.154	.135	32.5	64.4
420	80.8	62.0	107.8	118.1	-66.1	70.9	-72.1	984.0	-1237.9	1285.1	-1480.4	.243	.217	.197	.149	.130	34.2	67.5
440	84.6	62.5	111.7	122.5	-66.4	73.1	-74.2	1042.5	-1341.3	1357.6	-1605.4	.239	.213	.192	.145	.126	35.8	70.7
460	88.5	62.9	115.6	126.9	-66.7	75.2	-76.4	1101.0	-1448.7	1430.2	-1735.4	.234	.208	.188	.141	.123	37.6	73.9
480	92.3	63.3	119.5	131.3	-68.1	77.4	-78.6	1159.6	-1560.2	1502.9	-1870.3	.230	.204	.183	.137	.119	39.2	77.0
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3268 x wL	1.4355 x wL	1.6753 x wL	-.6732 x wL	.7624 x wL	-.8376 x wL	.0534 x wL^2	-.1732 x wL^2	.1174 x wL^2	-.2334 x wL^2						.3268 x L	.7624 x L

TABLE 4.7

Symmetrical four-span continuous beam.
Constant moment of inertia.
AASHO HS20-44 loading.

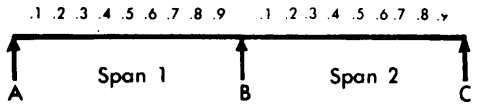


N=1.7

Total Length Ft.	Span Length "L"	Max. Reaction Kips.			Max. Shear Kips.			Max. Moment Kip.-ft.				Impact					Dist.-Ft.	
		at A	at B	at C	in AB at B	in BC at B	in BC at C	in AB at X	at B	in BC at X'	at C	I	II	III	IV	V	X	X'
120	22.2	40.4	63.4	63.7	-43.4	55.3	-54.1	152.8	-213.8	242.3	-213.8	.300	.300	.300	.270	.249	9.9	20.7
140	25.9	43.9	65.8	65.7	-48.3	58.2	-57.0	191.8	-257.5	306.9	-257.9	.300	.300	.296	.256	.235	9.2	24.0
160	29.6	46.8	67.5	67.1	-51.9	60.3	-59.1	236.3	-308.5	373.9	-315.4	.300	.300	.285	.244	.221	10.8	27.2
180	33.3	49.2	68.7	68.0	-54.6	62.0	-60.8	282.3	-359.5	442.7	-378.0	.300	.294	.275	.233	.210	12.4	30.4
200	37.0	51.2	69.6	70.7	-56.7	63.2	-62.2	331.6	-409.8	512.6	-445.8	.300	.286	.266	.222	.199	15.2	33.7
220	40.7	53.0	70.2	75.2	-58.4	64.2	-63.2	385.9	-459.4	583.4	-518.8	.300	.278	.257	.213	.190	16.8	37.1
240	44.4	54.4	73.1	79.7	-59.8	65.0	-64.1	440.7	-508.4	654.9	-596.9	.295	.270	.249	.204	.181	18.4	40.2
260	48.1	55.7	77.0	84.1	-60.9	65.7	-64.8	495.9	-566.7	726.9	-680.1	.289	.263	.242	.196	.173	20.0	43.4
280	51.9	56.8	80.9	88.6	-61.8	66.3	-65.4	551.4	-639.4	799.3	-768.6	.283	.256	.235	.189	.166	21.6	46.6
300	55.6	57.8	84.8	93.1	-62.6	66.7	-65.9	607.1	-716.1	872.0	-862.2	.277	.250	.228	.182	.159	23.2	49.9
320	59.3	58.6	88.8	97.6	-63.3	67.2	-66.4	663.1	-797.0	945.0	-960.9	.271	.244	.221	.175	.153	24.8	53.2
340	63.0	59.4	92.7	102.0	-63.9	67.5	-66.8	719.1	-882.1	1018.2	-1064.8	.266	.238	.215	.169	.147	26.5	56.4
360	66.7	60.1	96.6	106.5	-64.5	67.8	-67.1	775.4	-971.3	1091.5	-1173.8	.261	.233	.210	.164	.142	28.1	59.6
380	70.4	60.7	100.5	111.0	-64.9	68.1	-68.5	831.7	-1064.7	1165.1	-1288.1	.256	.227	.204	.159	.137	29.7	62.8
400	74.1	61.2	104.5	115.4	-65.3	69.6	-70.7	888.1	-1162.2	1238.7	-1407.4	.251	.222	.199	.154	.133	31.3	66.1
420	77.8	61.7	108.4	119.9	-65.7	71.7	-73.0	944.6	-1263.8	1312.4	-1532.0	.247	.217	.194	.149	.128	33.0	69.3
440	81.5	62.2	112.3	124.4	-66.0	73.9	-75.2	1001.2	-1369.6	1386.3	-1661.7	.242	.213	.190	.145	.124	34.7	72.5
460	85.2	62.6	116.2	128.9	-66.3	76.1	-77.4	1057.9	-1479.6	1460.2	-1796.5	.238	.208	.185	.141	.121	36.3	75.8
480	88.9	63.0	120.1	133.3	-67.9	78.3	-79.7	1114.6	-1593.6	1534.2	-1936.5	.234	.204	.181	.137	.117	37.9	79.0
Impact		I	IV	V	I	III	III	I	II	III	III							
Dead Load		.3101 x wL	1.4950 x wL	1.7899 x wL	-.6899 x wL	.8051 x wL	-.8949 x wLL	.0481 x wL^2	-.1899 x wL^2	.1342 x wL^2	-.2663 x wL^2						.3101 x L	.8051 x L

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0875	.0751	.0626	.0501	.0376	.0252	.0127	.0002	-.0123	-.0248	-.0223	-.0198	-.0173	-.0149	-.0124	-.0099	-.0074	-.0050	-.0025	0
	.2	0	.0752	.1504	.1256	.1008	.0760	.0512	.0264	.0016	-.0232	-.0480	-.0432	-.0384	-.0336	-.0288	-.0240	-.0192	-.0144	-.0096	-.0048	0
	.3	0	.0632	.1264	.1895	.1527	.1159	.0791	.0422	.0054	-.0314	-.0683	-.0614	-.0546	-.0478	-.0410	-.0341	-.0273	-.0205	-.0137	-.0068	0
	.4	0	.0516	.1032	.1548	.2064	.1580	.1096	.0612	.0128	-.0356	-.0840	-.0756	-.0672	-.0588	-.0504	-.0420	-.0336	-.0252	-.0168	-.0084	0
	.5	0	.0406	.0813	.1219	.1625	.2031	.1438	.0844	.0250	-.0344	-.0938	-.0844	-.0750	-.0656	-.0563	-.0469	-.0375	-.0281	-.0188	-.0094	0
	.6	0	.0304	.0608	.0912	.1216	.1520	.1824	.1128	.0432	-.0264	-.0960	-.0864	-.0768	-.0672	-.0576	-.0480	-.0384	-.0288	-.0192	-.0096	0
	.7	0	.0211	.0422	.0632	.0843	.1054	.1265	.1475	.0686	-.0103	-.0893	-.0803	-.0714	-.0625	-.0536	-.0446	-.0357	-.0268	-.0179	-.0089	0
	.8	0	.0128	.0256	.0384	.0512	.0640	.0768	.0896	.1024	.0152	-.0720	-.0648	-.0576	-.0504	-.0432	-.0360	-.0288	-.0216	-.0144	-.0072	0
	.9	0	.0057	.0115	.0172	.0229	.0286	.0344	.0401	.0458	.0515	-.0428	-.0385	-.0342	-.0299	-.0257	-.0214	-.0171	-.0128	-.0086	-.0043	0
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0043	-.0086	-.0128	-.0171	-.0214	-.0257	-.0299	-.0342	-.0385	-.0428	.0515	.0458	.0401	.0344	.0286	.0229	.0172	.0115	.0057	0
	.2	0	-.0072	-.0144	-.0216	-.0288	-.0360	-.0432	-.0504	-.0576	-.0648	-.0720	.0152	.1024	.0896	.0768	.0640	.0512	.0384	.0256	.0128	0
	.3	0	-.0089	-.0179	-.0268	-.0357	-.0446	-.0536	-.0625	-.0714	-.0803	-.0893	-.0103	.0686	.1475	.1265	.1054	.0843	.0632	.0422	.0211	0
	.4	0	-.0096	-.0192	-.0288	-.0384	-.0480	-.0576	-.0672	-.0768	-.0864	-.0960	-.0264	.0432	.1128	.1824	.1520	.1216	.0912	.0608	.0304	0
	.5	0	-.0094	-.0188	-.0281	-.0375	-.0469	-.0563	-.0656	-.0750	-.0844	-.0938	-.0344	.0250	.0844	.1438	.2031	.1625	.1219	.0813	.0406	0
	.6	0	-.0084	-.0168	-.0252	-.0336	-.0420	-.0504	-.0588	-.0672	-.0756	-.0840	-.0356	.0128	.0612	.1096	.1580	.2064	.1548	.1032	.0516	0
	.7	0	-.0068	-.0137	-.0205	-.0273	-.0341	-.0410	-.0478	-.0546	-.0614	-.0683	-.0314	.0054	.0422	.0791	.1159	.1527	.1895	.1264	.0632	0
	.8	0	-.0048	-.0096	-.0144	-.0192	-.0240	-.2088	-.0336	-.0384	-.0432	-.0480	-.0232	.0016	.0264	.0512	.0760	.1008	.1256	.1504	.0752	0
	.9	0	-.0025	-.0050	-.0074	-.0099	-.0124	-.0149	-.0173	-.0198	-.0223	-.0248	-.0123	.0002	.0127	.0252	.0376	.0501	.0626	.0751	.0875	0
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0388	.0675	.0863	.0950	.0938	.0825	.0613	.0300	.0061	0	.0061	.0300	.0613	.0825	.0938	.0950	.0863	.0675	.0388	0
– Area		0	-.0063	-.0125	-.0188	-.0250	-.0313	-.0375	-.0438	-.0500	-.0736	-.1250	-.0736	-.0500	-.0438	-.0375	-.0313	-.0250	-.0188	-.0125	-.0063	0
Total Area		0	.0325	.0550	.0675	.0700	.0625	.0450	.0175	-.0200	-.0675	-.1250	-.0675	-.0200	.0175	.0450	.0625	.0700	.0675	.0550	.0325	0

TABLE A2.0



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A	1.0	0	0	1.0	0	0	0
	.1	.8753	.1495	-.0248	.8753	-.1247	.0248	.0248
	.2	.7520	.2960	-.0480	.7520	-.2480	.0480	.0480
	.3	.6318	.4365	-.0683	.6318	-.3682	.0683	.0683
	.4	.5160	.5680	-.0840	.5160	-.4840	.0840	.0840
	.5	.4063	.6875	-.0938	.4063	-.5937	.0938	.0938
	.6	.3040	.7920	-.0960	.3040	-.6960	.0960	.0960
	.7	.2108	.8785	-.0893	.2108	-.7892	.0893	.0893
	.8	.1280	.9440	-.0720	.1280	-.8720	.0720	.0720
	.9	.0573	.9855	-.0428	.0573	-.9427	.0428	.0428
	B	0	1.0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0428	.9855	.0573	-.0428	-.0428	.9427	-.0573
	.2	-.0720	.9440	.1280	-.0720	-.0720	.8720	-.1280
	.3	-.0893	.8785	.2108	-.0893	-.0893	.7892	-.2108
	.4	-.0960	.7920	.3040	-.0960	-.0960	.6960	-.3040
	.5	-.0938	.6875	.4063	-.0938	-.0938	.5937	-.4063
	.6	-.0840	.5680	.5160	-.0840	-.0840	.4840	-.5160
	.7	-.0683	.4365	.6318	-.0683	-.0683	.3682	-.6318
	.8	-.0480	.2960	.7520	-.0480	-.0480	.2480	-.7520
	.9	-.0248	.1495	.8753	-.0248	-.0248	.1247	-.8753
	C	0	0	1.0	0	0	0	-1.0
+ Area		.4375	1.2500	.4375	.4375	0	.6250	.0625
- Area		-.0625	0	-.0625	-.0625	-.6250	0	-.4375
Total Area		.3750	1.2500	.3750	.3750	-.6250	.6250	-.3750

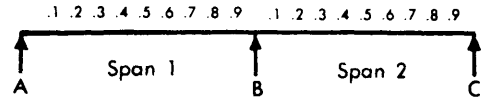
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.0

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0876	.0753	.0629	.0506	.0382	.0259	.0135	.0011	-.0112	-.0236	-.0212	-.0189	-.0165	-.0141	-.0118	-.0094	-.0071	-.0047	-.0024	0
	.2	0	.0754	.1509	.1263	.1017	.0771	.0526	.0280	.0034	-.0211	-.0457	-.0411	-.0366	-.0320	-.0274	-.0229	-.0183	-.0137	-.0091	-.0046	0
	.3	0	.0635	.1270	.1905	.1540	.1175	.0810	.0445	.0080	-.0285	-.0650	-.0585	-.0520	-.0455	-.0390	-.0325	-.0260	-.0195	-.0130	-.0065	0
	.4	0	.0520	.1040	.1560	.2080	.1600	.1120	.0640	.0160	-.0320	-.0800	-.0720	-.0640	-.0560	-.0480	-.0400	-.0320	-.0240	-.0160	-.0080	0
	.5	0	.0411	.0821	.1232	.1643	.2054	.1464	.0875	.0286	-.0304	-.0893	-.0804	-.0714	-.0625	-.0536	-.0446	-.0357	-.0268	-.0179	-.0089	0
	.6	0	.0309	.0617	.0926	.1234	.1543	.1851	.1160	.0469	-.0223	-.0914	-.0823	-.0731	-.0640	-.0549	-.0457	-.0366	-.0274	-.0183	-.0091	0
	.7	0	.0215	.0430	.0645	.0860	.1075	.1290	.1505	.0720	-.0065	-.0850	-.0765	-.0680	-.0595	-.0510	-.0425	-.0340	-.0255	-.0170	-.0085	0
	.8	0	.0131	.0263	.0394	.0526	.0657	.0789	.0920	.1051	.0183	-.0686	-.0617	-.0549	-.0480	-.0411	-.0343	-.0274	-.0206	-.0137	-.0069	0
	.9	0	.0059	.0119	.0178	.0237	.0296	.0356	.0415	.0474	.0534	-.0407	-.0366	-.0326	-.0285	-.0244	-.0204	-.0163	-.0122	-.0081	-.0041	0
SPAN 2	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0049	-.0099	-.0148	-.0197	-.0246	-.0296	-.0345	-.0394	-.0443	-.0493	.0547	.0486	.0425	.0364	.0304	.0243	.0182	.0121	.0061	0
	.2	0	-.0083	-.0166	-.0249	-.0332	-.0415	-.0498	-.0581	-.0664	-.0747	-.0830	.0133	.1096	.0959	.0822	.0685	.0548	.0411	.0274	.0137	0
	.3	0	-.0103	-.0206	-.0309	-.0411	-.0514	-.0617	-.0720	-.0823	-.0926	-.1028	-.0156	.0717	.1590	.1363	.1136	.0909	.0681	.0454	.0227	0
	.4	0	-.0111	-.0221	-.0332	-.0443	-.0553	-.0664	-.0774	-.0885	-.0996	-.1106	-.0336	.0435	.1206	.1976	.1647	.1317	.0988	.0659	.0329	0
	.5	0	-.0108	-.0216	-.0324	-.0432	-.0540	-.0648	-.0756	-.0864	-.0972	-.1080	-.0422	.0236	.0894	.1552	.2210	.1768	.1326	.0884	.0442	0
	.6	0	-.0097	-.0194	-.0290	-.0387	-.0484	-.0581	-.0678	-.0774	-.0871	-.0968	-.0431	.0106	.0642	.1179	.1716	.2253	.1690	.1126	.0563	0
	.7	0	-.0079	-.0157	-.0236	-.0315	-.0393	-.0472	-.0551	-.0629	-.0708	-.0786	-.0378	.0031	.0439	.0848	.1257	.1665	.2074	.1383	.0691	0
	.8	0	-.0055	-.0111	-.0166	-.0221	-.0277	-.0332	-.0387	-.0443	-.0498	-.0553	-.0278	-.0003	.0273	.0548	.0823	.1099	.1374	.1649	.0825	0
	.9	0	-.0029	-.0057	-.0086	-.0114	-.0143	-.0171	-.0200	-.0228	-.0257	-.0285	-.0147	-.0008	.0130	.0269	.0407	.0546	.0684	.0823	.0961	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0390	.0681	.0871	.0962	.0952	.0843	.0633	.0324	.0067	0	.0068	.0336	.0716	.0977	.1116	.1135	.1033	.0810	.0465	0
−Area		0	-.0079	-.0158	-.0238	-.0317	-.0396	-.0475	-.0555	-.0634	-.0865	-.1387	-.0772	-.0478	-.0417	-.0357	-.0298	-.0238	-.0179	-.0119	-.0060	0
Total Area		0	.0311	.0523	.0633	.0645	.0556	.0368	-.0078	-.0310	-.0798	-.1387	-.0704	-.0142	.0299	.0620	.0819	.0897	.0854	.0691	.0405	0

TABLE A2.1



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8764	.1450	-.0214	.8764	-.1236	.0214	.0214
	.2	.7543	.2873	-.0416	.7543	-.2457	.0416	.0416
	.3	.6350	.4241	-.0591	.6350	-.3650	.0591	.0591
	.4	.5200	.5527	-.0727	.5200	-.4800	.0727	.0727
	.5	.4107	.6705	-.0812	.4107	-.5893	.0812	.0812
	.6	.3086	.7745	-.0831	.3086	-.6914	.0831	.0831
	.7	.2150	.8623	-.0773	.2150	-.7850	.0773	.0773
	.8	.1314	.9309	-.0623	.1314	-.8686	.0623	.0623
	.9	.0593	.9777	-.0370	.0593	-.9407	.0370	.0370
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0493	.9941	.0552	-.0493	-.0493	.9448	-.0552
	.2	-.0830	.9584	.1246	-.0830	-.0830	.8754	-.1246
	.3	-.1028	.8963	.2065	-.1028	-.1028	.7935	-.2065
	.4	-.1106	.8112	.2994	-.1106	-.1106	.7006	-.2994
	.5	-.1080	.7062	.4018	-.1080	-.1080	.5982	-.4018
	.6	-.0968	.5848	.5120	-.0968	-.0968	.4880	-.5120
	.7	-.0786	.4501	.6285	-.0786	-.0786	.3715	-.6285
	.8	-.0553	.3056	.7497	-.0553	-.0553	.2503	-.7497
	.9	-.0285	.1545	.8741	-.0285	-.0285	.1259	-.8741
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4405	1.3149	.4780	.4405	0	.6761	.0541
-Area		-.0792	0	-.0541	-.0792	-.6388	0	-.4780
Total Area		.3613	1.3149	.4239	.3613	-.6388	.6761	-.4239

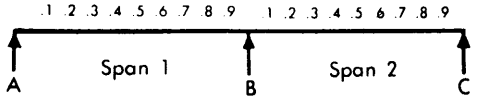
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.1

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0877	.0755	.0633	.0510	.0388	.0265	.0143	.0020	-.0102	-.0225	-.0203	-.0180	-.0157	-.0135	-.0113	-.0090	-.0067	-.0045	-.0023	0
	.2	0	.0756	.1513	.1269	.1025	.0782	.0538	.0295	.0051	-.0193	-.0436	-.0393	-.0349	-.0305	-.0262	-.0218	-.0175	-.0131	-.0087	-.0044	0
	.3	0	.0638	.1276	.1914	.1552	.1190	.0828	.0466	.0104	-.0258	-.0620	-.0558	-.0496	-.0434	-.0372	-.0310	-.0248	-.0186	-.0124	-.0062	0
	.4	0	.0524	.1047	.1571	.2095	.1618	.1142	.0665	.0189	-.0287	-.0764	-.0687	-.0611	-.0535	-.0458	-.0382	-.0305	-.0229	-.0153	-.0076	0
	.5	0	.0415	.0830	.1244	.1659	.2074	.1489	.0903	.0318	-.0267	-.0852	-.0767	-.0682	-.0597	-.0511	-.0426	-.0341	-.0256	-.0170	-.0085	0
	.6	0	.0313	.0625	.0938	.1251	.1564	.1876	.1189	.0502	-.0185	-.0873	-.0785	-.0698	-.0611	-.0524	-.0436	-.0349	-.0262	-.0175	-.0087	0
	.7	0	.0219	.0438	.0657	.0875	.1094	.1313	.1532	.0751	-.0030	-.0811	-.0730	-.0649	-.0568	-.0487	-.0406	-.0325	-.0243	-.0162	-.0081	0
	.8	0	.0135	.0269	.0404	.0538	.0673	.0807	.0942	.1076	.0211	-.0655	-.0589	-.0524	-.0458	-.0393	-.0327	-.0262	-.0196	-.0131	-.0065	0
	.9	0	.0061	.0122	.0183	.0245	.0306	.0367	.0428	.0489	.0550	-.0389	-.0350	-.0311	-.0272	-.0233	-.0194	-.0155	-.0117	-.0078	-.0039	0
	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0056	-.0112	-.0168	-.0224	-.0280	-.0336	-.0392	-.0448	-.0504	-.0560	.0576	.0512	.0448	.0384	.0320	.0256	.0192	.0128	.0064	0
	.2	0	-.0094	-.0189	-.0283	-.0377	-.0471	-.0566	-.0660	-.0754	-.0848	-.0943	.0112	.1166	.1020	.0874	.0729	.0583	.0437	.0291	.0146	0
	.3	0	-.0117	-.0234	-.0351	-.0467	-.0584	-.0701	-.0818	-.0935	-.1052	-.1168	-.0212	.0745	.1702	.1459	.1216	.0973	.0729	.0486	.0243	0
	.4	0	-.0126	-.0251	-.0377	-.0503	-.0628	-.0754	-.0880	-.1005	-.1131	-.1257	-.0411	.0435	.1280	.2126	.1772	.1417	.1063	.0709	.0354	0
	.5	0	-.0123	-.0245	-.0368	-.0491	-.0614	-.0736	-.0859	-.0982	-.1105	-.1227	-.0505	.0218	.0941	.1664	.2386	.1909	.1432	.0955	.0477	0
	.6	0	-.0110	-.0220	-.0330	-.0440	-.0550	-.0660	-.0770	-.0880	-.0990	-.1100	-.0510	.0080	.0670	.1260	.1850	.2440	.1830	.1220	.0610	0
	.7	0	-.0089	-.0179	-.0268	-.0357	-.0447	-.0536	-.0625	-.0715	-.0804	-.0893	-.0444	.0005	.0455	.0904	.1353	.1803	.2252	.1501	.0751	0
	.8	0	-.0063	-.0126	-.0189	-.0251	-.0314	-.0377	-.0440	-.0503	-.0566	-.0628	-.0326	.0023	.0280	.0583	.0886	.1189	.1491	.1794	.0897	0
	.9	0	-.0032	-.0065	-.0097	-.0130	-.0162	-.0194	-.0227	-.0259	-.0292	-.0324	-.0172	.0019	.0133	.0286	.0438	.0590	.0743	.0895	.1048	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0393	.0686	.0880	.0973	.0966	.0859	.0652	.0345	.0072	0	.0075	.0372	.0825	.1139	.1309	.1335	.1217	.0956	.0550	0
−Area		0	-.0098	-.0196	-.0295	-.0393	-.0491	-.0589	-.0687	-.0785	-.1017	-.1550	-.0822	-.0460	-.0398	-.0341	-.0284	-.0227	-.0170	-.0114	-.0057	0
Total Area		0	.0295	.0490	.0585	.0580	.0475	.0270	-.0035	-.0440	-.0945	-.1550	-.0747	-.0088	.0427	.0798	.1025	.1108	.1047	.0842	.0493	0

TABLE A2.2



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8775	.1413	−.0187	.8775	−.1225	.0187	.0187
	.2	.7564	.2800	−.0364	.7564	−.2436	.0364	.0364
	.3	.6380	.4138	−.0517	.6380	−.3620	.0517	.0517
	.4	.5236	.5400	−.0636	.5236	−.4764	.0636	.0636
	.5	.4148	.6563	−.0710	.4148	−.5852	.0710	.0710
	.6	.3127	.7600	−.0727	.3127	−.6873	.0727	.0727
	.7	.2189	.8487	−.0676	.2189	−.7811	.0676	.0676
	.8	.1345	.9200	−.0545	.1345	−.8655	.0545	.0545
	.9	.0611	.9713	−.0324	.0611	−.9389	.0324	.0324
	B.	0	1.0000	0	0	−1.0 / 0	0 / 1.0	0
SPAN 2	.1	−.0560	1.0026	.0534	−.0560	−.0560	.9466	−.0534
	.2	−.0943	.9728	.1215	−.0943	−.0943	.8785	−.1215
	.3	−.1168	.9142	.2026	−.1168	−.1168	.7974	−.2026
	.4	−.1257	.8304	.2953	−.1257	−.1257	.7047	−.2953
	.5	−.1227	.7250	.3977	−.1227	−.1227	.6023	−.3977
	.6	−.1100	.6016	.5084	−.1100	−.1100	.4916	−.5084
	.7	−.0893	.4638	.6255	−.0893	−.0893	.3745	−.6255
	.8	−.0628	.3152	.7476	−.0628	−.0628	.2524	−.7476
	.9	−.0324	.1594	.8730	−.0324	−.0324	.1270	−.8730
	C.	0	0	1.0000	0	0	0	−1.0000
+Area		.4432	1.3842	.5182	.4432	0	.7292	.0473
−Area		−.0982	0	−.0473	−.0982	−.6550	0	−.5182
Total Area		.3450	1.3842	.4709	.3450	−.6550	.7292	−.4709

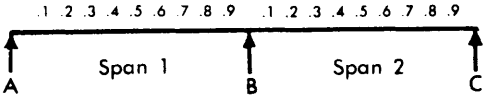
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.2

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0878	.0757	.0635	.0514	.0392	.0271	.0149	.0028	-.0094	-.0215	-.0194	-.0172	-.0151	-.0129	-.0108	-.0086	-.0065	-.0043	-.0022	0
	.2	0	.0758	.1517	.1275	.1033	.0791	.0550	.0308	.0066	-.0176	-.0417	-.0376	-.0334	-.0292	-.0250	-.0209	-.0167	-.0125	-.0083	-.0042	0
	.3	0	.0641	.1281	.1922	.1563	.1203	.0844	.0485	.0125	-.0234	-.0593	-.0534	-.0475	-.0415	-.0356	-.0297	-.0237	-.0178	-.0119	-.0059	0
	.4	0	.0527	.1054	.1581	.2108	.1635	.1162	.0689	.0216	-.0257	-.0730	-.0657	-.0584	-.0511	-.0438	-.0365	-.0292	-.0219	-.0146	-.0073	0
	.5	0	.0418	.0837	.1255	.1674	.2092	.1511	.0929	.0348	-.0234	-.0815	-.0734	-.0652	-.0571	-.0489	-.0408	-.0326	-.0245	-.0163	-.0082	0
	.6	0	.0317	.0633	.0950	.1266	.1583	.1899	.1216	.0532	-.0151	-.0835	-.0751	-.0668	-.0584	-.0501	-.0417	-.0334	-.0250	-.0167	-.0083	0
	.7	0	.0222	.0445	.0667	.0890	.1112	.1334	.1557	.0779	.0002	-.0776	-.0698	-.0621	-.0543	-.0466	-.0388	-.0310	-.0233	-.0155	-.0078	0
	.8	0	.0137	.0275	.0412	.0550	.0687	.0824	.0962	.1099	.0237	-.0626	-.0563	-.0501	-.0438	-.0376	-.0313	-.0250	-.0188	-.0125	-.0063	0
	.9	0	.0063	.0126	.0188	.0251	.0314	.0377	.0440	.0503	.0565	-.0372	-.0335	-.0297	-.0260	-.0223	-.0186	-.0149	-.0112	-.0074	-.0037	0
	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0063	-.0126	-.0188	-.0251	-.0314	-.0377	-.0440	-.0503	-.0565	-.0628	.0605	.0537	.0470	.0403	.0336	.0269	.0202	.0134	.0067	0
	.2	0	-.0106	-.0212	-.0317	-.0423	-.0529	-.0635	-.0741	-.0846	-.0952	-.1058	.0088	.1234	.1079	.0925	.0771	.0617	.0463	.0308	.0154	0
	.3	0	-.0131	-.0262	-.0393	-.0525	-.0656	-.0787	-.0918	-.1049	-.1180	-.1312	-.0270	.0771	.1812	.1553	.1294	.1035	.0777	.0518	.0259	0
	.4	0	-.0141	-.0282	-.0423	-.0564	-.0705	-.0846	-.0988	-.1129	-.1270	-.1411	-.0490	.0431	.1352	.2274	.1895	.1516	.1137	.0758	.0379	0
	.5	0	-.0138	-.0276	-.0413	-.0551	-.0689	-.0827	-.0964	-.1102	-.1240	-.1378	-.0590	.0198	.0986	.1773	.2561	.2049	.1537	.1024	.0512	0
	.6	0	-.0123	-.0247	-.0370	-.0494	-.0617	-.0741	-.0864	-.0988	-.1111	-.1234	-.0591	.0052	.0696	.1339	.1983	.2626	.1970	.1313	.0657	0
	.7	0	-.0100	-.0201	-.0301	-.0401	-.0501	-.0602	-.0702	-.0802	-.0903	-.1003	-.0513	-.0022	.0468	.0958	.1449	.1939	.2429	.1619	.0810	0
	.8	0	-.0071	-.0141	-.0212	-.0282	-.0353	-.0423	-.0494	-.0564	-.0635	-.0705	-.0375	-.0044	.0286	.0617	.0947	.1278	.1608	.1939	.0969	0
	.9	0	-.0036	-.0073	-.0109	-.0145	-.0182	-.0218	-.0255	-.0291	-.0327	-.0364	-.0197	-.0031	.0135	.0302	.0468	.0635	.0801	.0967	.1134	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0396	.0691	.0887	.0983	.0978	.0874	.0670	.0365	.0078	.0	.0082	.0410	.0939	.1312	.1515	.1550	.1416	.1113	.0641	0
−Area		0	-.0119	-.0239	-.0358	-.0478	-.0597	-.0716	-.0836	-.0955	-.1192	-.1737	-.0885	-.0448	-.0380	-.0326	-.0272	-.0217	-.0163	-.0109	-.0054	0
Total Area		0	.0277	.0452	.0529	.0505	.0381	.0158	-.0166	-.0590	-.1114	-.1737	-.0803	-.0038	.0559	.0986	.1243	.1333	.1253	.1004	.0587	0

TABLE A2.3



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8785	.1381	−.0166	.8785	−.1215	.0166	.0166
	.2	.7583	.2738	−.0321	.7583	−.2417	.0321	.0321
	.3	.6407	.4050	−.0457	.6407	−.3593	.0457	.0457
	.4	.5270	.5292	−.0562	.5270	−.4730	.0562	.0562
	.5	.4185	.6442	−.0627	.4185	−.5815	.0627	.0627
	.6	.3165	.7477	−.0642	.3165	−.6835	.0642	.0642
	.7	.2224	.8373	−.0597	.2224	−.7776	.0597	.0597
	.8	.1374	.9108	−.0482	.1374	−.8626	.0482	.0482
	.9	.0628	.9658	−.0286	.0628	−.9372	.0286	.0286
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	−.0628	1.0112	.0517	−.0628	−.0628	.9483	−.0517
	.2	−.1058	.9872	.1186	−.1058	−.1058	.8814	−.1186
	.3	−.1312	.9320	.1991	−.1312	−.1312	.8009	−.1991
	.4	−.1411	.8496	.2915	−.1411	−.1411	.7085	−.2915
	.5	−.1378	.7438	.3940	−.1378	−.1378	.6060	−.3940
	.6	−.1234	.6184	.5050	−.1234	−.1234	.4950	−.5050
	.7	−.1003	.4774	.6228	−.1003	−.1003	.3772	−.6228
	.8	−.0705	.3248	.7457	−.0705	−.0705	.2543	−.7457
	.9	−.0364	.1644	.8720	−.0364	−.0364	.1280	−.8720
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4457	1.4574	.5582	.4457	0	.7837	.0418
−Area		−.1194	0	−.0418	.1194	−.6737	0	−.5582
Total Area		.3263	1.4574	.5164	.3263	−.6737	.7837	−.5164

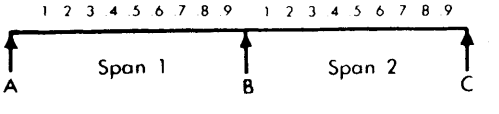
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.3

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0879	.0759	.0638	.0518	.0397	.0276	.0156	.0035	-.0086	-.0206	-.0186	-.0165	-.0144	-.0124	-.0103	-.0082	-.0062	-.0041	-.0021	0
	.2	0	.0760	.1520	.1280	.1040	.0800	.0560	.0320	.0080	-.0160	-.0400	-.0360	-.0320	-.0280	-.0240	-.0200	-.0160	-.0120	-.0080	-.0040	0
	.3	0	.0643	.1286	.1929	.1573	.1216	.0859	.0502	.0145	-.0212	-.0569	-.0512	-.0455	-.0398	-.0341	-.0284	-.0227	-.0171	-.0114	-.0057	0
	.4	0	.0530	.1060	.1590	.2120	.1650	.1180	.0710	.0240	-.0230	-.0700	-.0630	-.0560	-.0490	-.0420	-.0350	-.0280	-.0210	-.0140	-.0070	0
	.5	0	.0422	.0844	.1266	.1688	.2109	.1531	.0953	.0375	-.0203	-.0781	-.0703	-.0625	-.0547	-.0469	-.0391	-.0312	-.0234	-.0156	-.0078	0
	.6	0	.0320	.0640	.0960	.1280	.1600	.1920	.1240	.0560	-.0120	-.0800	-.0720	-.0640	-.0560	-.0480	-.0400	-.0320	-.0240	-.0160	-.0080	0
	.7	0	.0226	.0451	.0677	.0903	.1128	.1354	.1579	.0805	.0031	-.0744	-.0669	-.0595	-.0521	-.0446	-.0372	-.0297	-.0223	-.0149	-.0074	0
	.8	0	.0140	.0280	.0420	.0560	.0700	.0840	.0980	.1120	.0260	-.0600	-.0540	-.0480	-.0420	-.0360	-.0300	-.0240	-.0180	-.0120	-.0060	0
	.9	0	.0064	.0129	.0193	.0257	.0322	.0386	.0451	.0515	.0579	-.0356	-.0321	-.0285	-.0249	-.0214	-.0178	-.0143	-.0107	-.0071	-.0036	0
SPAN 2	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0070	-.0140	-.0209	-.0279	-.0349	-.0419	-.0489	-.0559	-.0628	-.0698	.0632	.0561	.0491	.0421	.0351	.0281	.0211	.0140	.0070	0
	.2	0	-.0118	-.0235	-.0353	-.0470	-.0588	-.0706	-.0823	-.0941	-.1058	-.1176	.0062	.1299	.1137	.0974	.0812	.0650	.0487	.0325	.0162	0
	.3	0	-.0146	-.0292	-.0437	-.0583	-.0729	-.0875	-.1020	-.1166	-.1312	-.1458	-.0332	.0794	.1920	.1645	.1371	.1097	.0823	.0548	.0274	0
	.4	0	-.0157	-.0314	-.0470	-.0627	-.0784	-.0941	-.1098	-.1254	-.1411	-.1568	-.0571	.0426	.1422	.2419	.2016	.1613	.1210	.0806	.0403	0
	.5	0	-.0153	-.0306	-.0459	-.0612	-.0766	-.0919	-.1072	-.1225	-.1378	-.1531	-.0678	.0175	.1028	.1881	.2734	.2188	.1641	.1094	.0547	0
	.6	0	-.0137	-.0274	-.0412	-.0549	-.0686	-.0823	-.0960	-.1098	-.1235	-.1372	-.0675	.0022	.0720	.1417	.2114	.2811	.2108	.1406	.0703	0
	.7	0	-.0111	-.0223	-.0334	-.0446	-.0557	-.0669	-.0780	-.0892	-.1003	-.1115	-.0583	-.0052	.0480	.1011	.1543	.2074	.2606	.1737	.0869	0
	.8	0	-.0078	-.0157	-.0235	-.0314	-.0392	-.0470	-.0549	-.0627	-.0706	-.0784	-.0426	-.0067	.0291	.0650	.1008	.1366	.1725	.2083	.1042	0
	.9	0	-.0040	-.0081	-.0121	-.0162	-.0202	-.0243	-.0283	-.0323	-.0364	-.0404	-.0224	-.0043	.0137	.0317	.0498	.0678	.0859	.1039	.1220	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0398	.0696	.0894	.0992	.0990	.0888	.0685	.0383	.0083	0	.0089	.0448	.1058	.1495	.1735	.1780	.1629	.1282	.0739	0
−Area		0	-.0143	-.0286	-.0429	-.0572	-.0715	-.0858	-.1000	-.1143	-.1388	-.1950	-.0962	-.0440	-.0365	-.0312	-.0260	-.0208	-.0156	-.0104	-.0052	0
Total Area		0	.0255	.0410	.0465	.0420	.0275	.0030	-.0315	-.0760	-.1305	-.1950	-.0873	.0008	.0693	.1183	.1475	.1572	.1473	.1178	.0687	0

TABLE A2.4



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8794	.1354	-.0147	.8794	-.1206	.0147	.0147
	.2	.7600	.2686	-.0286	.7600	-.2400	.0286	.0286
	.3	.6431	.3975	-.0406	.6431	-.3569	.0406	.0406
	.4	.5300	.5200	-.0500	.5300	-.4700	.0500	.0500
	.5	.4219	.6339	-.0558	.4219	-.5781	.0558	.0558
	.6	.3200	.7371	-.0571	.3200	-.6800	.0571	.0571
	.7	.2256	.8275	-.0531	.2256	-.7744	.0531	.0531
	.8	.1400	.9029	-.0429	.1400	-.8600	.0429	.0429
	.9	.0644	.9611	-.0254	.0644	-.9356	.0254	.0254
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0698	1.0197	.0501	-.0698	-.0698	.9499	-.0501
	.2	-.1176	1.0016	.1160	-.1176	-.1176	.8840	-.1160
	.3	-.1458	.9499	.1959	-.1458	-.1458	.8041	-.1959
	.4	-.1568	.8688	.2880	-.1568	-.1568	.7120	-.2880
	.5	-.1531	.7625	.3906	-.1531	-.1531	.6094	-.3906
	.6	-.1372	.6352	.5020	-.1372	-.1372	.4980	-.5020
	.7	-.1115	.4911	.6204	-.1115	-.1115	.3796	-.6204
	.8	-.0784	.3344	.7440	-.0784	-.0784	.2560	-.7440
	.9	-.0404	.1693	.8711	-.0404	-.0404	.1289	-.8711
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4479	1.5343	.5979	.4479	0	.8393	.0372
-Area		-.1429	0	-.0372	-.1429	-.6950	0	-.5979
Total Area		.3050	1.5343	.5607	.3050	-.6950	.8393	-.5607

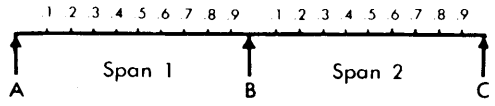
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.4

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0880	.0760	.0641	.0521	.0401	.0281	.0161	.0042	-.0078	-.0198	-.0178	-.0158	-.0139	-.0119	-.0099	-.0079	-.0059	-.0040	-.0020	0
	.2	0	.0762	.1523	.1285	.1046	.0808	.0570	.0331	.0093	-.0146	-.0384	-.0346	-.0307	-.0269	-.0230	-.0192	-.0154	-.0115	-.0077	-.0038	0
	.3	0	.0645	.1291	.1936	.1582	.1227	.0872	.0518	.0163	-.0191	-.0546	-.0491	-.0437	-.0382	-.0328	-.0273	-.0218	-.0164	-.0109	-.0055	0
	.4	0	.0533	.1066	.1598	.2131	.1664	.1197	.0730	.0262	-.0205	-.0672	-.0605	-.0538	-.0470	-.0403	-.0336	-.0269	-.0202	-.0134	-.0067	0
	.5	0	.0425	.0850	.1275	.1700	.2125	.1550	.0975	.0400	-.0175	-.0750	-.0675	-.0600	-.0525	-.0450	-.0375	-.0300	-.0225	-.0150	-.0075	0
	.6	0	.0323	.0646	.0970	.1293	.1616	.1939	.1262	.0586	-.0091	-.0708	-.0691	-.0614	-.0538	-.0461	-.0384	-.0307	-.0230	-.0154	-.0077	0
	.7	0	.0229	.0457	.0686	.0914	.1143	.1372	.1600	.0829	.0057	-.0714	-.0643	-.0571	-.0500	-.0428	-.0357	-.0286	-.0214	-.0143	-.0071	0
	.8	0	.0142	.0285	.0427	.0570	.0712	.0854	.0997	.1139	.0282	-.0576	-.0518	-.0461	-.0403	-.0346	-.0288	-.0230	-.0173	-.0115	-.0058	0
	.9	0	.0066	.0132	.0197	.0263	.0329	.0395	.0461	.0526	.0592	-.0342	-.0308	-.0274	-.0239	-.0205	-.0171	-.0137	-.0103	-.0068	-.0034	0
	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0077	-.0154	-.0231	-.0308	-.0385	-.0462	-.0539	-.0616	-.0693	-.0770	.0657	.0584	.0511	.0438	.0365	.0292	.0219	.0146	.0073	0
	.2	0	-.0130	-.0259	-.0389	-.0518	-.0648	-.0778	-.0907	-.1037	-.1166	-.1296	.0034	.1363	.1193	.1022	.0852	.0682	.0511	.0341	.0170	0
	.3	0	-.0161	-.0321	-.0482	-.0643	-.0803	-.0964	-.1125	-.1285	-.1446	-.1607	-.0396	.0815	.2025	.1736	.1447	.1157	.0868	.0579	.0289	0
	.4	0	-.0173	-.0346	-.0518	-.0691	-.0864	-.1037	-.1210	-.1382	-.1555	-.1728	-.0655	.0418	.1490	.2563	.2136	.1709	.1282	.0854	.0427	0
	.5	0	-.0169	-.0337	-.0506	-.0675	-.0844	-.1013	-.1181	-.1350	-.1519	-.1688	-.0769	.0150	.1069	.1988	.2906	.2325	.1744	.1163	.0581	0
	.6	0	-.0151	-.0302	-.0454	-.0605	-.0756	-.0907	-.1058	-.1210	-.1361	-.1512	-.0761	-.0010	.0742	.1493	.2244	.2995	.2246	.1498	.0749	0
	.7	0	-.0123	-.0246	-.0369	-.0491	-.0614	-.0737	-.0860	-.0983	-.1106	-.1228	-.0656	-.0083	.0490	.1063	.1636	.2209	.2781	.1854	.0927	0
	.8	0	-.0086	-.0173	-.0259	-.0346	-.0432	-.0518	-.0605	-.0691	-.0778	-.0864	-.0478	-.0091	.0295	.0682	.1068	.1454	.1841	.2227	.1114	0
	.9	0	-.0045	-.0089	-.0134	-.0178	-.0223	-.0267	-.0312	-.0356	-.0401	-.0445	-.0251	-.0056	.0138	.0333	.0527	.0722	.0916	.1111	.1305	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0400	.0700	.0900	.1000	.1000	.0900	.0700	.0400	.0089	0	.0096	.0488	.1181	.1688	.1969	.2025	.1856	.1463	.0844	0
−Area		0	-.0169	-.0337	-.0506	-.0675	-.0844	-.1012	-.1181	-.1350	-.1608	-.2188	-.1052	-.0438	-.0350	-.0300	-.0250	-.0200	-.0150	-.0100	-.0050	0
Total Area		0	.0231	.0363	.0394	.0325	.0156	-.0112	-.0481	-.0950	-.1519	-.2188	-.0956	.0050	.0831	.1388	.1719	.1825	.1706	.1363	.0794	0

TABLE A2.5



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8802	.1330	-.0132	.8802	-.1198	.0132	.0132
	.2	.7616	.2640	-.0256	.7616	-.2384	.0256	.0256
	.3	.6454	.3910	-.0364	.6454	-.3546	.0364	.0364
	.4	.5328	.5120	-.0448	.5328	-.4672	.0448	.0448
	.5	.4250	.6250	-.0500	.4250	-.5750	.0500	.0500
	.6	.3232	.7280	-.0512	.3232	-.6768	.0512	.0512
	.7	.2286	.8190	-.0476	.2286	-.7714	.0476	.0476
	.8	.1424	.8960	-.0384	.1424	-.8576	.0384	.0384
	.9	.0658	.9570	-.0228	.0658	-.9342	.0228	.0228
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0770	1.0282	.0487	-.0770	-.0770	.9513	-.0487
	.2	-.1296	1.0160	.1136	-.1296	-.1296	.8864	-.1136
	.3	-.1607	.9677	.1929	-.1607	-.1607	.8071	-.1929
	.4	-.1728	.8880	.2848	-.1728	-.1728	.7152	-.2848
	.5	-.1688	.7813	.3875	-.1688	-.1688	.6125	-.3875
	.6	-.1512	.6520	.4992	-.1512	-.1512	.5008	-.4992
	.7	-.1229	.5047	.6181	-.1229	-.1229	.3819	-.6181
	.8	-.0864	.3440	.7424	-.0864	-.0864	.2576	-.7424
	.9	-.0446	.1743	.8703	-.0446	-.0446	.1297	-.8703
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4500	1.6146	.6375	.4500	.0	.8958	.0333
-Area		-.1688	0	-.0333	-.1688	-.7188	0	-.6375
Total Area		.2812	1.6146	.6042	.2812	-.7188	.8958	-.6042

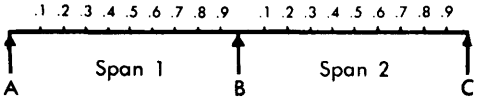
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.5

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0881	.0762	.0643	.0524	.0405	.0286	.0167	.0048	-.0071	-.0190	-.0171	-.0152	-.0133	-.0114	-.0095	-.0076	-.0057	-.0038	-.0019	0
	.2	0	.0763	.1526	.1289	.1052	.0815	.0578	.0342	.0105	-.0132	-.0369	-.0332	-.0295	-.0258	-.0222	-.0185	-.0148	-.0111	-.0074	-.0037	0
	.3	0	.0648	.1295	.1943	.1590	.1238	.0885	.0533	.0180	-.0172	-.0525	-.0472	-.0420	-.0367	-.0315	-.0262	-.0210	-.0157	-.0105	-.0052	0
	.4	0	.0535	.1071	.1606	.2142	.1677	.1212	.0748	.0283	-.0182	-.0646	-.0582	-.0517	-.0452	-.0388	-.0323	-.0258	-.0194	-.0129	-.0065	0
	.5	0	.0428	.0856	.1284	.1712	.2139	.1567	.0995	.0423	-.0149	-.0721	-.0649	-.0577	-.0505	-.0433	-.0361	-.0288	-.0216	-.0144	-.0072	0
	.6	0	.0326	.0652	.0978	.1305	.1631	.1957	.1283	.0609	-.0065	-.0738	-.0665	-.0591	-.0517	-.0443	-.0369	-.0295	-.0222	-.0148	-.0074	0
	.7	0	.0231	.0463	.0694	.0925	.1157	.1388	.1619	.0851	.0082	-.0687	-.0618	-.0549	-.0481	-.0412	-.0343	-.0275	-.0206	-.0137	-.0069	0
	.8	0	.0145	.0289	.0434	.0578	.0723	.0868	.1012	.1157	.0302	-.0554	-.0498	-.0443	-.0388	-.0332	-.0277	-.0222	-.0166	-.0111	-.0055	0
	.9	0	.0067	.0134	.0201	.0268	.0336	.0403	.0470	.0537	.0604	-.0329	-.0296	-.0263	-.0230	-.0197	-.0164	-.0132	-.0099	-.0066	-.0033	0
	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0084	-.0168	-.0253	-.0337	-.0421	-.0505	-.0589	-.0673	-.0758	-.0842	.0682	.0607	.0531	.0455	.0379	.0303	.0227	.0152	.0076	0
	.2	0	-.0142	-.0284	-.0425	-.0567	-.0709	-.0851	-.0992	-.1134	-.1276	-.1418	.0004	.1426	.1248	.1069	.0891	.0713	.0535	.0356	.0178	0
	.3	0	-.0176	-.0352	-.0527	-.0703	-.0879	-.1055	-.1230	-.1406	-.1582	-.1758	-.0462	.0834	.2130	.1825	.1521	.1217	.0913	.0608	.0304	0
	.4	0	-.0189	-.0378	-.0567	-.0756	-.0945	-.1134	-.1323	-.1512	-.1701	-.1890	-.0741	.0408	.1557	.2706	.2255	.1804	.1353	.0902	.0451	0
	.5	0	-.0185	-.0369	-.0554	-.0738	-.0923	-.1108	-.1292	-.1477	-.1662	-.1846	-.0862	.0123	.1108	.2092	.3077	.2462	.1846	.1231	.0615	0
	.6	0	-.0165	-.0331	-.0496	-.0662	-.0827	-.0992	-.1158	-.1323	-.1489	-.1654	-.0849	-.0043	.0762	.1568	.2373	.3178	.2384	.1589	.0795	0
	.7	0	-.0134	-.0269	-.0403	-.0538	-.0672	-.0806	-.0941	-.1075	-.1210	-.1344	-.0730	-.0115	.0499	.1114	.1728	.2342	.2957	.1971	.0986	0
	.8	0	-.0095	-.0189	-.0284	-.0378	-.0473	-.0567	-.0662	-.0756	-.0851	-.0945	-.0531	-.0116	.0298	.0713	.1127	.1542	.1956	.2371	.1185	0
	.9	0	-.0049	-.0097	-.0146	-.0195	-.0244	-.0292	-.0341	-.0390	-.0439	-.0487	-.0279	-.0070	.0139	.0348	.0556	.0765	.0974	.1183	.1391	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0402	.0704	.0906	.1008	.1010	.0912	.0713	.0415	.0094	.0	.0103	.0528	.1310	.1890	.2215	.2284	.2097	.1654	.0955	0
−Area		0	-.0197	-.0394	-.0591	-.0788	-.0985	-.1182	-.1378	-.1575	-.1849	-.2450	-.1156	-.0440	-.0337	-.0288	-.0240	-.0192	-.0144	-.0096	-.0048	0
Total Area		0	.0205	.0310	.0315	.0220	.0025	-.0270	-.0665	-.1160	-.1755	-.2450	-.1053	.0088	.0973	.1602	.1975	.2092	.1953	.1558	.0907	0

TABLE A2.6



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8810	.1309	-.0119	.8810	-.1190	.0119	.0119
	.2	.7631	.2600	-.0231	.7631	-.2369	.0231	.0231
	.3	.6475	.3853	-.0328	.6475	-.3525	.0328	.0328
	.4	.5354	.5050	-.0404	.5354	-.4646	.0404	.0404
	.5	.4279	.6172	-.0451	.4279	-.5721	.0451	.0451
	.6	.3262	.7200	-.0462	.3262	-.6738	.0462	.0462
	.7	.2313	.8116	-.0429	.2313	-.7687	.0429	.0429
	.8	.1446	.8900	-.0346	.1446	-.8554	.0346	.0346
	.9	.0671	.9534	-.0206	.0671	-.9329	.0206	.0206
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0842	1.0368	.0474	-.0842	-.0842	.9526	-.0474
	.2	-.1418	1.0304	.1114	-.1418	-.1418	.8886	-.1114
	.3	-.1758	.9856	.1902	-.1758	-.1758	.8098	-.1902
	.4	-.1890	.9072	.2818	-.1890	-.1890	.7182	-.2818
	.5	-.1846	.8000	.3846	-.1846	-.1846	.6154	-.3846
	.6	-.1654	.6688	.4966	-.1654	-.1654	.5034	-.4966
	.7	-.1344	.5184	.6160	-.1344	-.1344	.3840	-.6160
	.8	-.0945	.3536	.7409	-.0945	-.0945	.2591	-.7409
	.9	-.0487	.1792	.8695	-.0487	-.0487	.1305	-.8695
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4519	1.6981	.6769	.4519	.0	.9531	.0300
-Area		-.1969	0	-.0300	-.1969	-.7450	0	-.6769
Total Area		.2550	1.6981	.6469	.2550	-.7450	.9531	-.6469

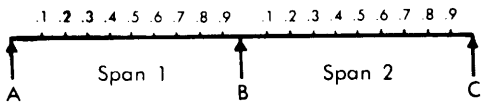
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.6

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A.	.1	.2	.3	.4	.5	.6	.7	.8	.9	B.	.1	.2	.3	.4	.5	.6	.7	.8	.9	C.
SPAN 1	A.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0882	.0763	.0645	.0527	.0408	.0290	.0172	.0053	-.0065	-.0183	-.0165	-.0147	-.0128	-.0110	-.0092	-.0073	-.0055	-.0037	-.0018	0
	.2	0	.0764	.1529	.1293	.1058	.0822	.0587	.0351	.0116	-.0120	-.0356	-.0320	-.0284	-.0249	-.0213	-.0178	-.0142	-.0107	-.0071	-.0036	0
	.3	0	.0649	.1299	.1948	.1598	.1247	.0897	.0546	.0196	-.0155	-.0506	-.0455	-.0404	-.0354	-.0303	-.0253	-.0202	-.0152	-.0101	-.0051	0
	.4	0	.0538	.1076	.1613	.2151	.1689	.1227	.0764	.0302	-.0160	-.0622	-.0560	-.0498	-.0436	-.0373	-.0311	-.0249	-.0187	-.0124	-.0062	0
	.5	0	.0431	.0861	.1292	.1722	.2153	.1583	.1014	.0444	-.0125	-.0694	-.0625	-.0556	-.0486	-.0417	-.0347	-.0278	-.0208	-.0139	-.0069	0
	.6	0	.0329	.0658	.0987	.1316	.1644	.1973	.1302	.0631	-.0040	-.0711	-.0640	-.0569	-.0498	-.0427	-.0356	-.0284	-.0213	-.0142	-.0071	0
	.7	0	.0234	.0468	.0702	.0936	.1169	.1403	.1637	.0871	.0105	-.0661	-.0595	-.0529	-.0463	-.0397	-.0331	-.0264	-.0198	-.0132	-.0066	0
	.8	0	.0147	.0293	.0440	.0587	.0733	.0880	.1027	.1173	.0320	-.0533	-.0480	-.0427	-.0373	-.0320	-.0267	-.0213	-.0160	-.0107	-.0053	0
	.9	0	.0068	.0137	.0205	.0273	.0342	.0410	.0478	.0547	.0615	-.0317	-.0285	-.0253	-.0222	-.0190	-.0158	-.0127	-.0095	-.0063	-.0032	0
SPAN 2	B.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0092	-.0183	-.0275	-.0366	-.0458	-.0549	-.0641	-.0732	-.0824	-.0915	.0706	.0628	.0549	.0471	.0392	.0314	.0235	.0157	.0078	0
	.2	0	-.0154	-.0308	-.0462	-.0617	-.0771	-.0925	-.1079	-.1233	-.1387	-.1541	-.0027	.1487	.1301	.1115	.0929	.0743	.0558	.0372	.0186	0
	.3	0	-.0191	-.0382	-.0573	-.0764	-.0955	-.1146	-.1337	-.1528	-.1720	-.1911	-.0530	.0852	.2233	.1914	.1595	.1276	.0957	.0638	.0319	0
	.4	0	-.0206	-.0411	-.0617	-.0822	-.1028	-.1233	-.1439	-.1644	-.1850	-.2055	-.0830	.0396	.1621	.2847	.2372	.1898	.1423	.0949	.0474	0
	.5	0	-.0201	-.0401	-.0602	-.0803	-.1003	-.1204	-.1405	-.1606	-.1806	-.2007	-.0956	.0094	-.1145	.2196	.3247	.2597	.1948	.1299	.0649	0
	.6	0	-.0180	-.0360	-.0539	-.0719	-.0899	-.1079	-.1259	-.1439	-.1618	-.1798	-.0938	-.0079	-.0781	.1641	.2501	.3361	.2521	.1680	.0840	0
	.7	0	-.0146	-.0292	-.0438	-.0584	-.0731	-.0877	-.1023	-.1169	-.1315	-.1461	-.0805	-.0149	.0507	.1163	.1819	.2476	.3132	.2088	.1044	0
	.8	0	-.0103	-.0206	-.0308	-.0411	-.0514	-.0617	-.0719	-.0822	-.0925	-.1028	-.0585	-.0142	.0301	.0743	.1186	.1629	.2072	.2514	.1257	0
	.9	0	-.0053	-.0106	-.0159	-.0212	-.0265	-.0318	-.0371	-.0424	-.0477	-.0530	-.0307	-.0084	.0139	.0362	.0585	.0808	.1031	.1254	.1477	0
	C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+Area		0	.0404	.0707	.0911	.1015	.1019	.0922	.0726	.0430	.0100	0	.0111	.0570	.1442	.2103	.2475	.2558	.2352	.1857	.1073	0
-Area		0	-.0227	-.0455	-.0682	-.0910	-.1137	-.1365	-.1592	-.1820	-.2114	-.2737	-.1274	-.0448	-.0324	-.0278	-.0231	-.0185	-.0139	-.0093	-.0046	0
Total Area		0	.0177	.0252	.0229	.0105	-.0118	-.0443	-.0866	-.1390	-.2014	-.2737	-.1163	.0122	.1118	.1825	.2244	.2373	.2213	.1764	.1027	0

TABLE A2.7



Unit load at		REACTIONS/P			SHEARS/P			
		R_A	R_B	R_C	V_{AB}	V_{BA}	V_{BC}	V_{CB}
SPAN 1	A.	1.0000	0	0	1.0000	0	0	0
	.1	.8817	.1291	-.0108	.8817	-.1183	.0108	.0108
	.2	.7644	.2565	-.0209	.7644	-.2356	.0209	.0209
	.3	.6494	.3803	-.0297	.6494	-.3506	.0297	.0297
	.4	.5378	.4988	-.0366	.5378	-.4622	.0366	.0366
	.5	.4306	.6103	-.0408	.4306	-.5694	.0408	.0408
	.6	.3289	.7129	-.0418	.3289	-.6711	.0418	.0418
	.7	.2339	.8050	-.0389	.2339	-.7661	.0389	.0389
	.8	.1467	.8847	-.0314	.1467	-.8533	.0314	.0314
	.9	.0683	.9503	-.0186	.0683	-.9317	.0186	.0186
	B.	0	1.0000	0	0	-1.0 / 0	0 / 1.0	0
SPAN 2	.1	-.0915	1.0454	.0462	-.0915	-.0915	.9538	-.0462
	.2	-.1541	1.0448	.1093	-.1541	-.1541	.8907	-.1093
	.3	-.1911	1.0035	.1876	-.1911	-.1911	.8124	-.1876
	.4	-.2055	.9264	.2791	-.2055	-.2055	.7209	-.2791
	.5	-.2007	.8187	.3819	-.2007	-.2007	.6181	-.3819
	.6	-.1798	.6856	.4942	-.1798	-.1798	.5058	-.4942
	.7	-.1461	.5320	.6141	-.1461	-.1461	.3859	-.6141
	.8	-.1028	.3632	.7396	-.1028	-.1028	.2604	-.7396
	.9	-.0530	.1841	.8688	-.0530	-.0530	.1312	-.8688
	C.	0	0	1.0000	0	0	0	-1.0000
+Area		.4537	1.7848	.7162	.4537	.0	1.0110	.0272
-Area		-.2275	0	-.0272	-.2275	-.7738	0	-.7162
Total Area		.2263	1.7848	.6890	.2263	-.7738	1.0110	-.6890

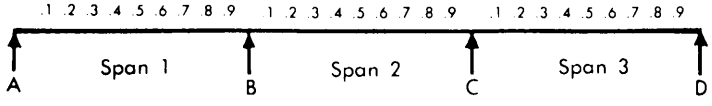
Influence coefficients — Two continuous spans.

L = Length of SHORTER spans; length of LONGER spans = NL.

N=1.7

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0874	.0747	.0621	.0494	.0368	.0242	.0115	-.0011	-.0138	-.0264	-.0231	-.0198	-.0165	-.0132	-.0099	-.0066	-.0033	.0000	.0033	.0066
	.2	0	.0749	.1498	.1246	.0995	.0744	.0493	.0242	-.0010	-.0261	-.0512	-.0448	-.0384	-.0320	-.0256	-.0192	-.0128	-.0064	.0000	.0064	.0128
	.3	0	.0627	.1254	.1882	.1509	.1136	.0763	.0390	.0018	-.0355	-.0728	-.0637	-.0546	-.0455	-.0364	-.0273	-.0182	-.0091	.0000	.0091	.0182
	.4	0	.0510	.1021	.1531	.2042	.1552	.1062	.0573	.0083	-.0406	-.0896	-.0784	-.0672	-.0560	-.0448	-.0336	-.0224	-.0112	.0000	.0112	.0224
	.5	0	.0400	.0800	.1200	.1600	.2000	.1400	.0800	.0200	-.0400	-.1000	-.0875	-.0750	-.0625	-.0500	-.0375	-.0250	-.0125	.0000	.0125	.0250
	.6	0	.0298	.0595	.0893	.1190	.1488	.1786	.1084	.0381	-.0322	-.1024	-.0896	-.0768	-.0640	-.0512	-.0384	-.0256	-.0128	.0000	.0128	.0256
	.7	0	.0205	.0410	.0614	.0819	.1024	.1229	.1434	.0638	-.0157	-.0952	-.0833	-.0714	-.0595	-.0476	-.0357	-.0238	-.0119	.0000	.0119	.0238
	.8	0	.0123	.0246	.0370	.0493	.0616	.0739	.0862	.0986	.0109	-.0768	-.0672	-.0576	-.0480	-.0384	-.0288	-.0192	-.0096	.0000	.0096	.0192
	.9	0	.0029	.0058	.0088	.0218	.0272	.0326	.0381	.0435	.0490	-.0456	-.0399	-.0342	-.0285	-.0228	-.0171	-.0114	-.0057	.0000	.0057	.0114
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0039	-.0078	-.0117	-.0156	-.0195	-.0234	-.0273	-.0312	-.0351	-.0390	.0534	.0458	.0382	.0306	.0230	.0154	.0073	.0002	-.0074	-.0150
	.2	0	-.0064	-.0128	-.0192	-.0256	-.0320	-.0384	-.0448	-.0512	-.0576	-.0640	.0192	.1024	.0856	.0688	.0520	.0352	.0184	.0016	-.0152	-.0320
	.3	0	-.0077	-.0154	-.0231	-.0308	-.0385	-.0462	-.0539	-.0616	-.0639	-.0770	-.0042	.0686	.1414	.1142	.0870	.0598	.0326	.0054	-.0218	-.0490
	.4	0	-.0080	-.0160	-.0240	-.0320	-.0400	-.0480	-.0560	-.0640	-.0720	-.0800	-.0184	.0432	.1048	.1664	.1280	.0896	.0512	.0128	-.0256	-.0640
	.5	0	-.0075	-.0150	-.0225	-.0300	-.0375	-.0450	-.0525	-.0600	-.0675	-.0750	-.0250	.0250	.0750	.1250	.1750	.1250	.0750	.0250	-.0250	-.0750
	.6	0	-.0064	-.0128	-.0192	-.0256	-.0320	-.0384	-.0448	-.0512	-.0576	-.0640	-.0256	.0128	.0512	.0896	.1280	.1664	.1048	.0432	-.0184	-.0800
	.7	0	-.0049	-.0098	-.0147	-.0196	-.0245	-.0294	-.0343	-.0392	-.0441	-.0490	-.0218	.0054	.0326	.0598	.0870	.1142	.1414	.0686	-.0042	-.0770
	.8	0	-.0032	-.0064	-.0096	-.0128	-.0160	-.0192	-.0224	-.0256	-.0288	-.0320	-.0152	.0016	.0184	.0352	.0520	.0688	.0856	.1024	.0192	-.0640
	.9	0	-.0015	-.0030	-.0045	-.0060	-.0075	-.0090	-.0105	-.0120	-.0135	-.0150	-.0074	.0002	.0078	.0154	.0230	.0306	.0382	.0458	.0534	-.0390
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0023	.0034	.0046	.0057	.0068	.0080	.0091	.0103	.0114	.0057	.0000	-.0057	-.0114	-.0171	-.0228	-.0285	-.0342	-.0399	-.0456
	.2	0	.0019	.0038	.0058	.0077	.0096	.0115	.0134	.0154	.0173	.0192	.0096	.0000	-.0096	-.0192	-.0288	-.0384	-.0480	-.0576	-.0672	-.0768
	.3	0	.0024	.0048	.0071	.0095	.0119	.0143	.0167	.0190	.0214	.0238	.0119	.0000	-.0119	-.0238	-.0357	-.0476	-.0595	-.0714	-.0833	-.0952
	.4	0	.0026	.0051	.0077	.0102	.0128	.0154	.0179	.0205	.0230	.0256	.0128	.0000	-.0128	-.0256	-.0384	-.0512	-.0640	-.0768	-.0896	-.1024
	.5	0	.0025	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0125	.0000	-.0125	-.0250	-.0375	-.0500	-.0625	-.0750	-.0875	-.1000
	.6	0	.0022	.0045	.0067	.0090	.0112	.0134	.0157	.0179	.0202	.0224	.0112	.0000	-.0112	-.0224	-.0336	-.0448	-.0560	-.0672	-.0784	-.0896
	.7	0	.0018	.0036	.0055	.0073	.0091	.0109	.0127	.0146	.0164	.0182	.0091	.0000	-.0091	-.0182	-.0273	-.0364	-.0455	-.0546	-.0637	-.0728
	.8	0	.0013	.0026	.0038	.0051	.0064	.0077	.0090	.0102	.0115	.0128	.0064	.0000	-.0064	-.0128	-.0192	-.0256	-.0320	-.0384	-.0448	-.0512
	.9	0	.0007	.0013	.0020	.0026	.0033	.0040	.0046	.0053	.0059	.0066	.0033	.0000	-.0033	-.0066	-.0099	-.0132	-.0165	-.0198	-.0231	-.0264
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0400	.0700	.0900	.1000	.1000	.0900	.0700	.0402	.0204	.0167	.0152	.0300	.0550	.0700	.0750	.0700	.0550	.0300	.0152	.0167
– Area		0	-.0050	-.0100	-.0150	-.0200	-.0250	-.0300	-.0350	-.0402	-.0654	-.1167	-.0702	-.0500	-.0500	-.0500	-.0500	-.0500	-.0500	-.0500	-.0702	-.1167
Total Area		0	.0350	.0600	.0750	.0800	.0750	.0600	.0350	.0000	-.0450	-.1000	-.0550	-.0200	.0050	.0200	.0250	.0200	.0050	-.0200	-.0550	-.1000

TABLE A3.0



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8736	.1594	-.0396	.0066	.8736	-.1264	.0330	.0330	-.0066	-.0066
	.2	.7488	.3152	-.0768	.0128	.7488	-.2512	.0640	.0640	-.0128	-.0128
	.3	.6272	.4638	-.1092	.0182	.6272	-.3728	.0910	.0910	-.0182	-.0182
	.4	.5104	.6016	-.1344	.0224	.5104	-.4896	.1120	.1120	-.0224	-.0224
	.5	.4000	.7250	-.1500	.0250	.4000	-.6000	.1250	.1250	-.0250	-.0250
	.6	.2976	.8304	-.1536	.0256	.2976	-.7024	.1280	.1280	-.0256	-.0256
	.7	.2048	.9142	-.1428	.0238	.2048	-.7952	.1190	.1190	-.0238	-.0238
	.8	.1232	.9728	-.1152	.0192	.1232	-.8768	.0960	.0960	-.0192	-.0192
	.9	.0544	1.0026	-.0684	.0114	.0544	-.9456	.0570	.0570	-.0114	-.0114
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0390	.9630	.0910	-.0150	-.0390	-.0390	.9240	-.0760	.0150	.0150
	.2	-.0640	.8960	.2000	-.0320	-.0640	-.0640	.8320	-.1680	.0320	.0320
	.3	-.0770	.8050	.3210	-.0490	-.0770	-.0770	.7280	-.2720	.0490	.0490
	.4	-.0800	.6960	.4480	-.0640	-.0800	-.0800	.6160	-.3840	.0640	.0640
	.5	-.0750	.5750	.5750	-.0750	-.0750	-.0750	.5000	-.5000	.0750	.0750
	.6	-.0640	.4480	.6960	-.0800	-.0640	-.0640	.3840	-.6160	.0800	.0800
	.7	-.0490	.3210	.8050	-.0770	-.0490	-.0490	.2720	-.7280	.0770	.0770
	.8	-.0320	.2000	.8960	-.0640	-.0320	-.0320	.1680	-.8320	.0640	.0640
	.9	-.0150	.0910	.9630	-.0390	-.0150	-.0150	.0760	-.9240	.0390	.0390
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0114	-.0684	1.0026	.0544	.0114	.0114	-.0570	-.0570	.9456	-.0544
	.2	.0192	-.1152	.9728	.1232	.0192	.0192	-.0960	-.0960	.8763	-.1232
	.3	.0238	-.1428	.9142	.2048	.0238	.0238	-.1190	-.1190	.7952	-.2048
	.4	.0256	-.1536	.8304	.2976	.0256	.0256	-.1280	-.1280	.7024	-.2976
	.5	.0250	-.1500	.7250	.4000	.0250	.0250	-.1250	-.1250	.6000	-.4000
	.6	.0224	-.1344	.6016	.5104	.0224	.0224	-.1120	-.1120	.4896	-.5104
	.7	.0182	-.1092	.4638	.6272	.0182	.0182	-.0910	-.0910	.3728	-.6272
	.8	.0128	-.0768	.3152	.7488	.0128	.0128	-.0640	-.0640	.2512	-.7488
	.9	.0066	-.0396	.1594	.8736	.0066	.0066	-.0330	-.0330	.1264	-.8736
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4500	1.2000	1.2000	.4500	.4500	.0167	.5833	.0833	.6167	.0500
− Area		-.0500	-.1000	-.1000	-.0500	-.0500	-.6167	-.0833	-.5833	-.0167	-.4500
Total Area		.4000	1.1000	1.1000	.4000	.4000	-.6000	.5000	-.5000	.6000	-.4000

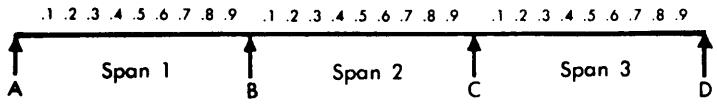
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.0

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0875	.0749	.0624	.0499	.0373	.0248	.0123	-.0002	-.0128	-.0253	-.0221	-.0189	-.0157	-.0125	-.0093	-.0061	-.0030	.0002	.0034	.0066
	.2	0	.0751	.1502	.1253	.1004	.0755	.0506	.0256	.0007	-.0242	-.0491	-.0429	-.0367	-.0305	-.0243	-.0181	-.0119	-.0057	.0005	.0067	.0129
	.3	0	.0630	.1260	.1891	.1521	.1151	.0781	.0411	.0042	-.0328	-.0698	-.0610	-.0522	-.0434	-.0346	-.0258	-.0169	-.0081	.0007	.0095	.0183
	.4	0	.0514	.1028	.1542	.2056	.1571	.1085	.0599	.0113	-.0373	-.0859	-.0751	-.0642	-.0534	-.0425	-.0317	-.0209	-.0100	.0008	.0117	.0225
	.5	0	.0404	.0808	.1212	.1617	.2021	.1425	.0829	.0233	-.0363	-.0959	-.0838	-.0717	-.0596	-.0475	-.0354	-.0233	-.0112	.0009	.0130	.0251
	.6	0	.0302	.0604	.0906	.1207	.1509	.1811	.1113	.0415	-.0283	-.0982	-.0858	-.0734	-.0610	-.0486	-.0362	-.0238	-.0115	.0009	.0133	.0257
	.7	0	.0209	.0417	.0626	.0835	.1044	.1252	.1461	.0670	-.0121	-.0913	-.0797	-.0682	-.0567	-.0452	-.0337	-.0222	-.0106	.0009	.0124	.0239
	.8	0	.0126	.0253	.0379	.0506	.0632	.0758	.0885	.1011	.0137	-.0736	-.0643	-.0550	-.0458	-.0365	-.0272	-.0179	-.0086	.0007	.0100	.0193
	.9	0	.0056	.0113	.0169	.0225	.0281	.0338	.0394	.0450	.0507	-.0437	-.0382	-.0327	-.0272	-.0216	-.0161	-.0106	-.0051	.0004	.0059	.0114
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0045	-.0090	-.0135	-.0179	-.0224	-.0269	-.0314	-.0359	-.0404	-.0449	.0569	.0487	.0406	.0324	.0242	.0160	.0078	-.0004	-.0086	-.0168
	.2	0	-.0074	-.0147	-.0221	-.0294	-.0368	-.0441	-.0515	-.0588	-.0662	-.0735	.0182	.1100	.0917	.0735	.0552	.0370	.0187	.0004	-.0178	-.0361
	.3	0	-.0088	-.0177	-.0265	-.0353	-.0442	-.0530	-.0618	-.0706	-.0795	-.0883	-.0080	.0722	.1525	.1228	.0931	.0634	.0336	.0039	-.0258	-.0555
	.4	0	-.0092	-.0183	-.0275	-.0366	-.0458	-.0549	-.0641	-.0732	-.0824	-.0916	-.0237	.0442	.1121	.1799	.1378	.0957	.0536	.0114	-.0307	-.0728
	.5	0	-.0086	-.0171	-.0257	-.0342	-.0428	-.0514	-.0599	-.0685	-.0771	-.0856	-.0306	.0244	.0794	.1344	.1894	.1344	.0794	.0244	-.0306	-.0856
	.6	0	-.0073	-.0146	-.0218	-.0291	-.0364	-.0437	-.0510	-.0583	-.0655	-.0728	-.0307	.0114	.0536	.0957	.1378	.1799	.1121	.0442	-.0237	-.0916
	.7	0	-.0055	-.0111	-.0167	-.0222	-.0278	-.0333	-.0389	-.0444	-.0500	-.0555	-.0258	.0039	.0336	.0634	.0931	.1228	.1525	.0722	-.0080	-.0883
	.8	0	-.0036	-.0072	-.0108	-.0144	-.0180	-.0216	-.0252	-.0288	-.0325	-.0361	-.0178	.0004	.0187	.0370	.0552	.0735	.0917	.1100	.0182	-.0735
	.9	0	-.0017	-.0034	-.0050	-.0067	-.0084	-.0101	-.0117	-.0134	-.0151	-.0168	-.0086	-.0004	.0078	.0160	.0242	.0324	.0406	.0487	.0569	-.0449
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0023	.0034	.0046	.0057	.0068	.0080	.0091	.0103	.0114	.0059	.0004	-.0051	-.0106	-.0161	-.0216	-.0272	-.0327	-.0382	-.0437
	.2	0	.0019	.0039	.0058	.0077	.0097	.0116	.0135	.0154	.0174	.0193	.0100	.0007	-.0086	-.0179	-.0272	-.0365	-.0458	-.0550	-.0643	-.0736
	.3	0	.0024	.0048	.0072	.0096	.0120	.0143	.0167	.0191	.0215	.0239	.0124	.0009	-.0106	-.0222	-.0337	-.0452	-.0567	-.0682	-.0797	-.0913
	.4	0	.0026	.0051	.0077	.0103	.0129	.0154	.0180	.0206	.0231	.0257	.0133	.0009	-.0115	-.0238	-.0362	-.0486	-.0610	-.0734	-.0858	-.0982
	.5	0	.0025	.0050	.0075	.0100	.0126	.0151	.0176	.0201	.0226	.0251	.0130	.0009	-.0112	-.0233	-.0354	-.0475	-.0596	-.0717	-.0838	-.0959
	.6	0	.0023	.0045	.0068	.0090	.0113	.0135	.0158	.0180	.0203	.0225	.0117	.0008	-.0100	-.0209	-.0317	-.0425	-.0534	-.0642	-.0751	-.0859
	.7	0	.0018	.0037	.0055	.0073	.0092	.0110	.0128	.0146	.0165	.0183	.0095	.0007	-.0081	-.0169	-.0258	-.0346	-.0434	-.0522	-.0610	-.0698
	.8	0	.0013	.0026	.0039	.0052	.0065	.0077	.0090	.0103	.0116	.0129	.0067	.0005	-.0057	-.0119	-.0181	-.0243	-.0305	-.0367	-.0429	-.0491
	.9	0	.0007	.0013	.0020	.0026	.0033	.0040	.0046	.0053	.0059	.0066	.0034	.0002	-.0030	-.0061	-.0093	-.0125	-.0157	-.0189	-.0221	-.0253
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0403	.0705	.0908	.1011	.1015	.0917	.0720	.0423	.0209	.0167	.0163	.0346	.0643	.0824	.0885	.0824	.0643	.0346	.0163	.0167
- Area		0	-.0063	-.0125	-.0188	-.0251	-.0315	-.0377	-.0440	-.0503	-.0749	-.1267	-.0718	-.0478	-.0472	-.0472	-.0472	-.0472	-.0472	-.0478	-.0718	-.1267
Total Area		0	.0340	.0580	.0720	.0760	.0700	.0540	.0280	-.0080	-.0540	-.1100	-.0555	-.0132	.0171	.0352	.0413	.0352	.0171	-.0132	-.0555	-.1100

TABLE A3.1



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8747	.1543	-.0356	.0066	.8747	-.1253	.0290	.0290	-.0066	-.0066
	.2	.7509	.3054	-.0692	.0129	.7509	-.2491	.0563	.0563	-.0129	-.0129
	.3	.6302	.4498	-.0983	.0183	.6302	-.3698	.0800	.0800	-.0183	-.0183
	.4	.5141	.5844	-.1210	.0225	.5141	-.4859	.0985	.0985	-.0225	-.0225
	.5	.4041	.7058	-.1350	.0251	.4041	-.5959	.1099	.1099	-.0251	-.0251
	.6	.3018	.8108	-.1383	.0257	.3018	-.6982	.1126	.1126	-.0257	-.0257
	.7	.2087	.8960	-.1286	.0239	.2087	-.7913	.1047	.1047	-.0239	-.0239
	.8	.1264	.9581	-.1038	.0193	.1264	-.8736	.0845	.0845	-.0193	-.0193
	.9	.0563	.9939	-.0616	.0114	.0563	-.9437	.0502	.0502	-.0114	-.0114
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0449	.9704	.0913	-.0168	-.0449	-.0449	.9255	-.0745	.0168	.0168
	.2	-.0735	.9076	.2020	-.0361	-.0735	-.0735	.8341	-.1659	.0361	.0361
	.3	-.0833	.8181	.3257	-.0555	-.0883	-.0883	.7298	-.2702	.0555	.0555
	.4	-.0916	.7086	.4558	-.0728	-.0916	-.0916	.6170	-.3830	.0728	.0728
	.5	-.0856	.5856	.5856	-.0856	-.0856	-.0856	.5000	-.5000	.0856	.0856
	.6	-.0728	.4558	.7086	-.0916	-.0728	-.0728	.3830	-.6170	.0916	.0916
	.7	-.0555	.3257	.8181	-.0883	-.0555	-.0555	.2702	-.7298	.0883	.0883
	.8	-.0361	.2020	.9076	-.0735	-.0361	-.0361	.1659	-.8341	.0735	.0735
	.9	-.0168	.0913	.9704	-.0449	-.0168	-.0168	.0745	-.9255	.0449	.0449
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0114	-.0616	.9939	.0563	.0114	.0114	-.0502	-.0502	.9437	-.0563
	.2	.0193	-.1038	.9581	.1264	.0193	.0193	-.0845	-.0845	.8736	-.1264
	.3	.0239	-.1286	.8960	.2087	.0239	.0239	-.1047	-.1047	.7913	-.2087
	.4	.0257	-.1383	.8108	.3018	.0257	.0257	-.1126	-.1126	.6982	-.3018
	.5	.0251	-.1350	.7058	.4041	.0251	.0251	-.1099	-.1099	.5959	-.4041
	.6	.0225	-.1210	.5844	.5141	.0225	.0225	-.0985	-.0985	.4859	-.5141
	.7	.0183	-.0983	.4498	.6302	.0183	.0183	-.0800	-.0800	.3698	-.6302
	.8	.0129	-.0692	.3054	.7509	.0129	.0129	-.0563	-.0563	.2491	-.7509
	.9	.0066	-.0356	.1543	.8747	.0066	.0066	-.0290	-.0290	.1253	-.8747
	D	0	0	0	1.0	0	0	0	0	0	0
+ Area		.4528	1.2500	1.2500	.4528	.4528	.0167	.6233	.0733	.6267	.0628
- Area		-.0628	-.0900	-.0900	-.0628	-.0628	- 6267	-.0733	-.6233	-.0167	-.4528
Total Area		.3900	1.1600	1.1600	.3900	.3900	-.6100	.5500	-.5500	.6100	-.3900

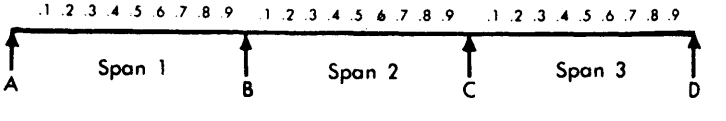
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.1

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0876	.0751	.0627	.0503	.0378	.0254	.0130	.0006	-.0119	-.0243	-.0212	-.0181	-.0150	-.0119	-.0088	-.0057	-.0027	.0004	.0035	.0066
	.2	0	.0753	.1506	.1259	.1011	.0764	.0517	.0270	.0023	-.0224	-.0471	-.0411	-.0351	-.0291	-.0231	-.0171	-.0111	-.0051	.0009	.0069	.0129
	.3	0	.0633	.1266	.1899	.1532	.1165	.0798	.0431	.0064	-.0303	-.0670	-.0585	-.0500	-.0414	-.0329	-.0244	-.0158	-.0073	.0012	.0098	.0183
	.4	0	.0518	.1035	.1553	.2070	.1588	.1105	.0623	.0140	-.0343	-.0825	-.0720	-.0615	-.0510	-.0405	-.0300	-.0195	-.0090	.0015	.0120	.0225
	.5	0	.0408	.0816	.1224	.1632	.2040	.1448	.0855	.0263	-.0329	-.0921	-.0804	-.0686	-.0569	-.0452	-.0335	-.0218	-.0100	.0017	.0134	.0251
	.6	0	.0306	.0611	.0917	.1223	.1529	.1834	.1140	.0446	-.0249	-.0943	-.0823	-.0703	-.0583	-.0463	-.0343	-.0223	-.0103	.0017	.0137	.0257
	.7	0	.0212	.0425	.0637	.0849	.1062	.1274	.1486	.0699	-.0089	-.0877	-.0765	-.0653	-.0542	-.0430	-.0319	-.0207	-.0096	.0016	.0128	.0239
	.8	0	.0129	.0259	.0388	.0517	.0646	.0776	.0905	.1034	.0164	-.0707	-.0617	-.0527	-.0437	-.0347	-.0257	-.0167	-.0077	.0013	.0103	.0193
	.9	0	.0058	.0116	.0174	.0232	.0290	.0348	.0406	.0464	.0522	-.0420	-.0366	-.0313	-.0260	-.0206	-.0153	-.0099	-.0046	.0008	.0061	.0115
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0051	-.0102	-.0153	-.0204	-.0255	-.0305	-.0356	-.0407	-.0458	-.0509	.0603	.0516	.0428	.0340	.0253	.0165	.0078	-.0010	-.0098	-.0185
	.2	0	-.0083	-.0167	-.0250	-.0333	-.0417	-.0500	-.0583	-.0667	-.0750	-.0833	.0170	.1173	.0976	.0780	.0583	.0386	.0189	-.0008	.0204	-.0401
	.3	0	-.0100	-.0200	-.0300	-.0400	-.0500	-.0599	-.0699	-.0799	-.0899	-.0999	-.0121	.0757	.1634	.1312	.0990	.0668	.0346	.0023	.0299	-.0621
	.4	0	-.0103	-.0207	-.0310	-.0413	-.0517	-.0620	-.0724	-.0827	-.0930	-.1034	-.0292	.0449	.1191	.1933	.1474	.1016	.0557	.0099	.0359	-.0818
	.5	0	-.0096	-.0193	-.0289	-.0386	-.0482	-.0579	-.0675	-.0771	-.0868	-.0964	-.0364	.0236	.0836	.1436	.2036	.1436	.0836	.0236	.0364	-.0964
	.6	0	-.0082	-.0164	-.0245	-.0327	-.0409	-.0491	-.0572	-.0654	-.0736	-.0818	-.0359	.0099	.0557	.1016	.1474	.1933	.1191	.0449	.0292	-.1034
	.7	0	-.0062	-.0124	-.0186	-.0248	-.0311	-.0373	-.0435	-.0497	-.0559	-.0621	-.0299	.0023	.0346	.0668	.0990	.1312	.1634	.0757	.0121	-.0999
	.8	0	-.0040	-.0080	-.0120	-.0160	-.0201	-.0241	-.0281	-.0321	-.0361	-.0401	-.0204	-.0008	.0189	.0386	.0583	.0780	.0976	.1173	.0170	-.0833
	.9	0	-.0019	-.0037	-.0056	-.0074	-.0093	-.0111	-.0130	-.0148	-.0167	-.0185	-.0098	-.0010	.0078	.0165	.0253	.0340	.0428	.0516	.0603	-.0509
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0012	.0023	.0035	.0046	.0058	.0069	.0081	.0092	.0104	.0115	.0061	.0008	-.0046	-.0099	-.0153	-.0206	-.0260	-.0313	-.0366	-.0420
	.2	0	.0019	.0039	.0058	.0077	.0097	.0116	.0135	.0154	.0174	.0193	.0103	.0013	-.0077	-.0167	-.0257	-.0347	-.0437	-.0527	-.0617	-.0707
	.3	0	.0024	.0048	.0072	.0096	.0120	.0143	.0167	.0191	.0215	.0239	.0128	.0016	-.0096	-.0207	-.0319	-.0430	-.0542	-.0653	-.0765	-.0877
	.4	0	.0026	.0051	.0077	.0103	.0129	.0154	.0180	.0206	.0231	.0257	.0137	.0017	-.0103	-.0223	-.0343	-.0463	-.0583	-.0703	-.0823	-.0943
	.5	0	.0025	.0050	.0075	.0100	.0126	.0151	.0176	.0201	.0226	.0251	.0134	.0017	-.0100	-.0218	-.0335	-.0452	-.0569	-.0686	-.0804	-.0921
	.6	0	.0023	.0045	.0068	.0090	.0113	.0135	.0158	.0180	.0203	.0225	.0120	.0015	-.0090	-.0195	-.0300	-.0405	-.0510	-.0615	-.0720	-.0825
	.7	0	.0018	.0037	.0055	.0073	.0092	.0110	.0128	.0146	.0165	.0183	.0098	.0012	-.0073	-.0158	.0244	-.0329	-.0414	-.0500	-.0585	-.0670
	.8	0	.0013	.0026	.0039	.0052	.0065	.0077	.0090	.0103	.0116	.0129	.0069	.0009	-.0051	-.0111	-.0171	-.0231	-.0291	-.0351	-.0411	-.0471
	.9	0	.0007	.0013	.0020	.0026	.0033	.0040	.0046	.0053	.0059	.0066	.0035	.0004	-.0027	-.0057	-.0088	-.0119	-.0150	-.0181	-.0212	-.0243
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0406	.0710	.0916	.1022	.1027	.0932	.0737	.0443	.0214	.0167	.0174	.0394	.0740	.0956	.1028	.0956	.0740	.0394	.0174	.0167
− Area		0	-.0078	-.0154	-.0231	-.0309	-.0386	-.0463	-.0539	-.0617	-.0860	-.1385	-.0744	-.0460	-.0446	-.0446	-.0446	-.0446	-.0446	-.0460	-.0744	-.1385
Total Area		0	.0328	.0556	.0685	.0713	.0641	.0469	.0198	-.0174	-.0646	-.1218	-.0570	-.0066	.0294	.0510	.0582	.0510	.0294	-.0066	-.0570	-.1218

TABLE A3.2



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8757	.1501	-.0324	.0066	.8757	-.1243	.0258	.0258	-.0066	-.0066
	.2	.7529	.2971	-.0629	.0129	.7529	-.2471	.0500	.0500	-.0129	-.0129
	.3	.6330	.4381	-.0894	.0183	.6330	-.3670	.0711	.0711	-.0183	-.0183
	.4	.5175	.5700	-.1100	.0225	.5175	-.4825	.0875	.0875	-.0225	-.0225
	.5	.4079	.6897	-.1227	.0251	.4079	-.5921	.0976	.0976	-.0251	-.0251
	.6	.3057	.7943	-.1257	.0257	.3057	-.6943	.1000	.1000	-.0257	-.0257
	.7	.2123	.8806	-.1168	.0239	.2123	-.7877	.0929	.0929	-.0239	-.0239
	.8	.1293	.9457	-.0943	.0193	.1293	-.8707	.0750	.0750	-.0193	-.0193
	.9	.0580	.9865	-.0560	.0115	.0580	-.9420	.0445	.0445	-.0115	-.0115
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0509	.9779	.0915	-.0185	-.0509	-.0509	.9270	-.0730	.0185	.0185
	.2	-.0833	.9193	.2041	-.0401	-.0833	-.0833	.8360	-.1640	.0401	.0401
	.3	-.0999	.8314	.3306	-.0621	-.0999	-.0999	.7315	-.2685	.0621	.0621
	.4	-.1034	.7214	.4638	-.0818	-.1034	-.1034	.6180	-.3820	.0818	.0818
	.5	-.0964	.5964	.5964	-.0964	-.0964	-.0964	.5000	-.5000	.0964	.0964
	.6	-.0818	.4638	.7214	-.1034	-.0818	-.0818	.3820	-.6180	.1034	.1034
	.7	-.0621	.3306	.8314	-.0999	-.0621	-.0621	.2685	-.7315	.0999	.0999
	.8	-.0401	.2041	.9193	-.0833	-.0401	-.0401	.1640	-.8360	.0833	.0833
	.9	-.0185	.0915	.9779	-.0509	-.0185	-.0185	.0730	-.9270	.0509	.0509
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0115	-.0560	.9865	.0580	.0115	.0115	-.0445	-.0445	.9420	-.0580
	.2	.0193	-.0943	.9457	.1293	.0193	.0193	-.0750	-.0750	.8707	-.1293
	.3	.0239	-.1168	.8806	.2123	.0239	.0239	-.0929	-.0929	.7877	-.2123
	.4	.0257	-.1257	.7943	.3057	.0257	.0257	-.1000	-.1000	.6943	-.3057
	.5	.0251	-.1227	.6897	.4079	.0251	.0251	-.0976	-.0976	.5921	-.4079
	.6	.0225	-.1100	.5700	.5175	.0225	.0225	-.0875	-.0875	.4825	-.5175
	.7	.0183	-.0894	.4381	.6330	.0183	.0183	-.0711	-.0711	.3670	-.6330
	.8	.0129	-.0629	.2971	.7529	.0129	.0129	-.0500	-.0500	.2471	-.7529
	.9	.0066	-.0324	.1501	.8757	.0066	.0066	-.0258	-.0258	.1243	-.8757
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4554	1.3036	1.3036	.4554	.4554	.0167	.6651	.0651	.6385	.0772
- Area		-.0772	-.0818	-.0818	-.0772	-.0772	-.6385	-.0651	-.6651	-.0167	-.4552
Total Area		.3782	1.2218	1.2218	.3782	.3782	-.6218	.6000	-.6000	.6218	-.3782

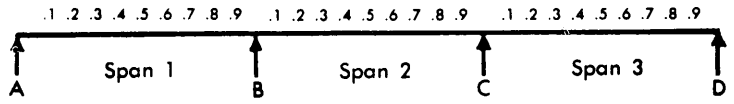
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.2

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0877	.0753	.0630	.0506	.0383	.0260	.0136	.0013	-.0111	-.0234	-.0204	-.0174	-.0144	-.0114	-.0084	-.0054	-.0024	.0006	.0036	.0066
	.2	0	.0755	.1509	.1264	.1019	.0773	.0528	.0282	.0037	.0208	-.0454	-.0395	-.0337	-.0279	-.0221	-.0163	-.0105	-.0046	.0012	.0070	.0128
	.3	0	.0636	.1271	.1907	.1542	.1178	.0813	.0449	.0084	-.0280	-.0645	-.0562	-.0480	-.0397	-.0314	-.0231	-.0149	-.0066	.0017	.0100	.0182
	.4	0	.0521	.1041	.1562	.2082	.1603	.1124	.0644	.0165	-.0314	-.0794	-.0692	-.0590	-.0488	-.0387	-.0285	-.0183	-.0081	.0021	.0123	.0224
	.5	0	.0411	.0823	.1234	.1646	.2057	.1468	.0880	.0291	-.0297	-.0886	-.0772	-.0659	-.0545	-.0431	-.0318	-.0204	-.0091	.0023	.0137	.0250
	.6	0	.0309	.0619	.0928	.1237	.1546	.1856	.1165	.0474	-.0217	-.0907	-.0791	-.0675	-.0558	-.0442	-.0325	-.0209	-.0093	.0024	.0140	.0256
	.7	0	.0216	.0431	.0647	.0863	.1078	.1294	.1510	.0725	-.0059	-.0843	-.0735	-.0627	-.0519	-.0411	-.0303	-.0194	-.0086	.0022	.0130	.0238
	.8	0	.0132	.0264	.0396	.0528	.0660	.0792	.0924	.1056	.0188	-.0680	-.0593	-.0506	-.0419	-.0331	-.0244	-.0157	-.0070	.0018	.0105	.0192
	.9	0	.0060	.0119	.0179	.0238	.0298	.0358	.0417	.0477	.0536	-.0404	-.0352	-.0300	-.0249	-.0197	-.0145	-.0093	-.0041	.0011	.0062	.0114
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0057	-.0114	-.0171	-.0228	-.0286	-.0343	-.0400	-.0457	-.0514	-.0571	.0636	.0543	.0450	.0356	.0263	.0170	.0077	-.0016	-.0109	-.0202
	.2	0	-.0093	-.0187	-.0280	-.0373	-.0467	-.0560	-.0653	-.0747	-.0840	-.0933	.0156	.1245	.1034	.0823	.0613	.0402	.0191	-.0020	-.0231	-.0442
	.3	0	-.0112	-.0223	-.0335	-.0447	-.0559	-.0670	-.0782	-.0894	-.1006	-.1117	-.0164	.0789	.1742	.1395	.1048	.0701	.0354	.0007	-.0340	-.0687
	.4	0	-.0115	-.0231	-.0346	-.0462	-.0577	-.0692	-.0808	-.0923	-.1039	-.1154	-.0350	.0455	.1260	.2064	.1569	.1073	.0578	.0083	.0413	-.0908
	.5	0	-.0107	-.0215	-.0322	-.0430	-.0537	-.0644	-.0752	-.0859	-.0967	-.1074	-.0424	.0226	.0876	.1526	.2176	.1526	.0876	.0226	-.0424	-.1074
	.6	0	-.0091	-.0182	-.0272	-.0363	-.0454	-.0545	-.0636	-.0727	-.0817	-.0908	-.0413	.0083	.0578	.1073	.1569	.2064	.1260	.0455	-.0350	-.1154
	.7	0	-.0069	-.0137	-.0206	-.0275	-.0344	-.0412	-.0481	-.0550	-.0618	-.0687	-.0340	.0007	.0354	.0701	.1048	.1395	.1742	.0789	-.0164	-.1117
	.8	0	-.0044	-.0088	-.0132	-.0177	-.0221	-.0265	-.0309	-.0353	-.0397	-.0442	-.0231	-.0020	.0191	.0402	.0613	.0823	.1034	.1245	.0156	-.0933
	.9	0	-.0020	-.0040	-.0061	-.0081	-.0101	-.0121	-.0142	-.0162	-.0182	-.0202	-.0109	-.0016	.0077	.0170	.0263	.0356	.0450	.0543	.0636	-.0571
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0023	.0034	.0046	.0057	.0068	.0080	.0091	.0103	.0114	.0062	.0011	-.0041	-.0093	-.0145	-.0197	-.0249	-.0300	-.0352	-.0404
	.2	0	.0019	.0038	.0058	.0077	.0096	.0115	.0134	.0154	.0173	.0192	.0105	.0018	-.0070	-.0157	-.0244	-.0331	-.0419	-.0506	-.0593	-.0680
	.3	0	.0024	.0048	.0071	.0095	.0119	.0143	.0167	.0190	.0214	.0238	.0130	.0022	-.0086	-.0194	-.0303	-.0411	-.0519	-.0627	-.0735	-.0843
	.4	0	.0026	.0051	.0077	.0102	.0128	.0154	.0179	.0205	.0230	.0256	.0140	.0024	-.0093	-.0209	-.0325	-.0442	-.0558	-.0675	-.0791	-.0907
	.5	0	.0025	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0137	.0023	-.0091	-.0204	-.0318	-.0431	-.0545	-.0659	-.0772	-.0886
	.6	0	.0022	.0045	.0067	.0090	.0112	.0134	.0157	.0179	.0202	.0224	.0123	.0021	-.0081	-.0183	-.0285	-.0387	-.0488	-.0590	-.0692	-.0794
	.7	0	.0018	.0036	.0055	.0073	.0091	.0109	.0127	.0146	.0164	.0182	.0100	.0017	-.0066	-.0149	-.0231	-.0314	-.0397	-.0480	-.0562	-.0645
	.8	0	.0013	.0026	.0038	.0051	.0064	.0077	.0090	.0102	.0115	.0128	.0070	.0012	-.0046	-.0105	-.0163	-.0221	-.0279	-.0337	-.0395	-.0454
	.9	0	.0007	.0013	.0020	.0026	.0033	.0040	.0046	.0053	.0059	.0066	.0036	.0006	-.0024	-.0054	-.0084	-.0114	-.0144	-.0174	-.0204	-.0234
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0408	.0715	.0923	.1031	.1038	.0946	.0754	.0461	.0218	.0167	.0184	.0441	.0844	.1097	.1182	.1097	.0844	.0441	.0184	.0167
- Area		0	-.0093	-.0186	-.0279	-.0373	-.0465	-.0559	-.0652	-.0745	-.0987	-.1522	-.0778	-.0444	-.0424	-.0424	-.0424	-.0424	-.0424	-.0444	-.0778	-.1522
Total Area		0	.0315	.0529	.0644	.0658	.0573	.0387	.0102	-.0284	-.0769	-.1355	-.0594	-.0003	.0420	.0673	.0758	.0673	.0420	-.0003	-.0594	-.1355

TABLE A3.3



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8766	.1465	-.0297	.0066	.8766	-.1234	.0231	.0231	-.0066	-.0066
	.2	.7546	.2901	-.0575	.0128	.7546	-.2454	.0447	.0447	-.0128	-.0128
	.3	.6355	.4281	-.0818	.0182	.6355	-.3645	.0636	.0636	-.0182	-.0182
	.4	.5206	.5577	-.1007	.0224	.5206	-.4794	.0783	.0783	-.0224	-.0224
	.5	.4114	.6760	-.1124	.0250	.4114	-.5886	.0874	.0874	-.0250	-.0250
	.6	.3093	.7802	-.1151	.0256	.3093	-.6907	.0895	.0895	-.0256	-.0256
	.7	.2157	.8676	-.1071	.0238	.2157	-.7843	.0833	.0833	-.0238	-.0238
	.8	.1320	.9352	-.0864	.0192	.1320	-.8680	.0672	.0672	-.0192	-.0192
	.9	.0596	.9803	-.0513	.0114	.0596	-.9404	.0399	.0399	-.0114	-.0114
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0571	.9855	.0918	-.0202	-.0571	-.0571	.9284	-.0716	.0202	.0202
	.2	-.0933	.9311	.2064	-.0442	-.0933	-.0933	.8378	-.1622	.0442	.0442
	.3	-.1117	.8448	.3356	-.0687	-.1117	-.1117	.7331	-.2669	.0687	.0687
	.4	-.1154	.7343	.4719	-.0908	-.1154	-.1154	.6189	-.3811	.0908	.0908
	.5	-.1074	.6074	.6074	-.1074	-.1074	-.1074	.5000	-.5000	.1074	.1074
	.6	-.0908	.4719	.7343	-.1154	-.0908	-.0908	.3811	-.6189	.1154	.1154
	.7	-.0687	.3356	.8448	-.1117	-.0687	-.0687	.2669	-.7331	.1117	.1117
	.8	-.0442	.2064	.9311	-.0933	-.0442	-.0442	.1622	-.8378	.0933	.0933
	.9	-.0202	.0918	.9855	-.0571	-.0202	-.0202	.0716	-.9284	.0571	.0571
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0114	-.0513	.9803	.0596	.0114	.0114	-.0399	-.0399	.9404	-.0596
	.2	.0192	-.0864	.9352	.1320	.0192	.0192	-.0672	-.0672	.8680	-.1320
	.3	.0238	-.1071	.8676	.2157	.0238	.0238	-.0833	-.0833	.7843	-.2157
	.4	.0256	-.1151	.7802	.3093	.0256	.0256	-.0895	-.0895	.6907	-.3093
	.5	.0250	-.1124	.6760	.4114	.0250	.0250	-.0874	-.0874	.5886	-.4114
	.6	.0224	-.1007	.5577	.5206	.0224	.0224	-.0783	-.0783	.4794	-.5206
	.7	.0182	-.0818	.4281	.6355	.0182	.0182	-.0636	-.0636	.3645	-.6355
	.8	.0128	-.0575	.2901	.7546	.0128	.0128	-.0447	-.0447	.2454	-.7546
	.9	.0066	-.0297	.1465	.8766	.0066	.0066	-.0231	-.0231	.1234	-.8766
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4576	1.3604	1.3604	.4576	.4576	.0167	.7083	.0583	.6522	.0931
- Area		-.0931	-.0749	-.0749	-.0931	-.0931	-.6522	-.0583	-.7083	-.0167	-.4576
Total Area		.3645	1.2855	1.2855	.3645	.3645	-.6355	.6500	-.6500	.6355	-.3645

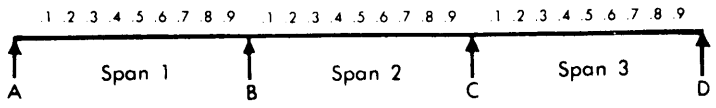
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.3

Unit load at		MOMENTS/PL																					
		SPAN 1											SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0877	.0755	.0632	.0510	.0387	.0265	.0142	.0020	-.0103	-.0225	-.0196	-.0167	-.0138	-.0109	-.0080	-.0051	-.0022	.0008	.0037	.0066
	.2	0	.0756	.1513	.1269	.1025	.0781	.0538	.0294	.0050	-.0193	-.0437	-.0381	-.0324	-.0268	-.0211	-.0155	-.0098	-.0042	.0015	.0071	.0128
	.3	0	.0638	.1276	.1914	.1551	.1189	.0827	.0465	.0103	-.0259	-.0622	-.0541	-.0461	-.0381	-.0300	-.0220	-.0140	-.0060	.0021	.0101	.0181
	.4	0	.0523	.1047	.1570	.2094	.1617	.1141	.0664	.0188	-.0289	-.0765	-.0666	-.0567	-.0469	-.0370	-.0271	-.0172	-.0073	.0026	.0124	.0223
	.5	0	.0415	.0829	.1244	.1658	.2073	.1488	.0902	.0317	-.0269	-.0854	-.0744	-.0633	-.0523	-.0413	-.0302	-.0192	-.0082	.0028	.0139	.0249
	.6	0	.0313	.0625	.0938	.1250	.1563	.1875	.1188	.0500	-.0187	-.0874	-.0761	-.0649	-.0536	-.0423	-.0310	-.0197	-.0084	.0029	.0142	.0255
	.7	0	.0219	.0437	.0656	.0875	.1094	.1312	.1531	.0750	-.0032	-.0813	-.0708	-.0603	-.0498	-.0393	-.0288	-.0183	-.0078	.0027	.0132	.0237
	.8	0	.0134	.0269	.0403	.0538	.0672	.0807	.0941	.1075	.0210	-.0656	-.0571	-.0486	-.0402	-.0317	-.0232	-.0148	-.0063	.0022	.0107	.0191
	.9	0	.0061	.0122	.0183	.0244	.0305	.0366	.0427	.0489	.0550	-.0389	-.0339	-.0289	-.0238	-.0188	-.0138	-.0088	-.0037	.0013	.0063	.0114
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0063	-.0127	-.0190	-.0254	-.0317	-.0381	-.0444	-.0508	-.0571	-.0634	.0667	.0569	.0470	.0372	.0273	.0175	.0076	-.0022	-.0121	-.0219
	.2	0	-.0104	-.0207	-.0311	-.0414	-.0518	-.0621	-.0725	-.0828	-.0932	-.1035	.0140	.1315	.1091	.0866	.0641	.0417	.0192	-.0033	-.0257	-.0482
	.3	0	-.0124	-.0248	-.0371	-.0495	-.0619	-.0743	-.0867	-.0990	-.1114	-.1238	-.0210	.0819	.1847	.1476	.1104	.0733	.0361	-.0011	-.0382	-.0754
	.4	0	-.0128	-.0255	-.0383	-.0511	-.0638	-.0766	-.0893	-.1021	-.1149	-.1276	-.0409	.0459	.1327	.2194	.1662	.1130	.0597	.0065	-.0467	-.1000
	.5	0	-.0119	-.0237	-.0356	-.0474	-.0593	-.0711	-.0830	-.0948	-.1067	-.1185	-.0485	.0215	.0915	.1615	.2315	.1615	.0915	.0215	-.0485	-.1185
	.6	0	-.0100	-.0200	-.0300	-.0400	-.0500	-.0600	-.0700	-.0800	-.0900	-.1000	-.0467	.0065	.0597	.1130	.1662	.2194	.1327	.0459	-.0409	-.1276
	.7	0	-.0075	-.0151	-.0226	-.0301	-.0377	-.0452	-.0528	-.0603	-.0678	-.0754	-.0382	-.0011	.0361	.0733	.1104	.1476	.1847	.0819	-.0210	-.1238
	.8	0	-.0048	-.0096	-.0145	-.0193	-.0241	-.0289	-.0337	-.0386	-.0434	-.0482	-.0257	-.0033	.0192	.0417	.0641	.0866	.1091	.1315	.0140	-.1035
	.9	0	-.0022	-.0044	-.0066	-.0088	-.0110	-.0132	-.0153	-.0175	-.0197	-.0219	-.0121	-.0022	-.0076	.0175	.0273	.0372	.0470	.0569	.0667	-.0634
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0023	.0034	.0046	.0057	.0068	.0080	.0091	.0103	.0114	.0063	.0013	-.0037	-.0088	-.0138	-.0188	-.0238	-.0289	-.0339	-.0389
	.2	0	.0019	.0038	.0057	.0076	.0096	.0115	.0134	.0153	.0172	.0191	.0107	.0022	-.0063	-.0148	-.0232	-.0317	-.0402	-.0486	-.0571	-.0656
	.3	0	.0024	.0047	.0071	.0095	.0119	.0142	.0166	.0190	.0213	.0237	.0132	.0027	-.0078	-.0183	-.0288	-.0393	-.0498	-.0603	-.0708	-.0813
	.4	0	.0026	.0051	.0077	.0102	.0128	.0153	.0179	.0204	.0230	.0255	.0142	.0029	-.0084	-.0197	-.0310	-.0423	-.0536	-.0649	-.0761	-.0874
	.5	0	.0025	.0050	.0075	.0100	.0125	.0149	.0174	.0199	.0224	.0249	.0139	.0028	-.0082	-.0192	-.0302	-.0413	-.0523	-.0633	-.0744	-.0854
	.6	0	.0022	.0045	.0067	.0089	.0112	.0134	.0156	.0178	.0201	.0223	.0124	.0026	-.0073	-.0172	-.0271	-.0370	-.0469	-.0567	-.0666	-.0765
	.7	0	.0018	.0036	.0054	.0072	.0091	.0109	.0127	.0145	.0163	.0181	.0101	.0021	-.0060	-.0140	-.0220	-.0300	-.0381	-.0461	-.0541	-.0622
	.8	0	.0013	.0026	.0038	.0051	.0064	.0077	.0090	.0102	.0115	.0128	.0071	.0015	-.0042	-.0098	-.0155	-.0211	-.0268	-.0324	-.0381	-.0437
	.9	0	.0007	.0013	.0020	.0026	.0033	.0040	.0046	.0053	.0059	.0066	.0037	.0008	-.0022	-.0051	-.0080	-.0109	-.0138	-.0167	-.0196	-.0225
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0410	.0719	.0929	.1038	.1048	.0958	.0768	.0477	.0221	.0166	.0194	.0490	.0952	.1246	.1344	.1246	.0952	.0490	.0194	.0166
- Area		0	-.0111	-.0221	-.0332	-.0442	-.0553	-.0664	-.0775	-.0885	-.1130	-.1676	-.0822	-.0432	-.0404	-.0404	-.0404	-.0404	-.0404	-.0432	-.0822	-.1676
Total Area		0	.0299	.0498	.0597	.0596	.0495	.0294	-.0007	-.0408	-.0909	-.1510	-.0628	.0058	.0548	.0842	.0940	.0842	.0548	.0058	.0628	.1510

TABLE A3.4



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8774	.1433	-.0273	.0066	.8774	-.1226	.0207	.0207	-.0066	-.0066
	.2	.7563	.2841	-.0532	.0128	.7563	-.2437	.0404	.0404	-.0128	-.0128
	.3	.6378	.4195	-.0754	.0181	.6378	-.3622	.0573	.0573	-.0181	-.0181
	.4	.5235	.5471	-.0929	.0223	.5235	-.4765	.0706	.0706	-.0223	-.0223
	.5	.4146	.6642	-.1037	.0249	.4146	-.5854	.0788	.0788	-.0249	-.0249
	.6	.3126	.7681	-.1062	.0255	.3126	-.6874	.0807	.0807	-.0255	-.0255
	.7	.2187	.8563	-.0987	.0237	.2187	-.7813	.0750	.0750	-.0237	-.0237
	.8	.1344	.9261	-.0796	.0191	.1344	-.8656	.0605	.0605	-.0191	-.0191
	.9	.0611	.9749	-.0474	.0114	.0611	-.9389	.0360	.0360	-.0114	-.0114
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0634	.9931	.0922	-.0219	-.0634	-.0634	.9297	-.0703	.0219	.0219
	.2	-.1035	.9431	.2086	-.0482	-.1035	-.1035	.8396	-.1604	.0482	.0482
	.3	-.1238	.8584	.3408	-.0754	-.1238	-.1238	.7346	-.2654	.0754	.0754
	.4	-.1276	.7474	.4802	-.1000	-.1276	-.1276	.6198	-.3802	.1000	.1000
	.5	-.1185	.6185	.6185	-.1185	-.1185	-.1185	.5000	-.5000	.1185	.1185
	.6	-.1000	.4802	.7474	-.1276	-.1000	-.1000	.3802	-.6198	.1276	.1276
	.7	-.0754	.3408	.8584	-.1238	-.0754	-.0754	.2654	-.7346	.1238	.1238
	.8	-.0482	.2086	.9431	-.1035	-.0482	-.0842	.1604	-.8396	.1035	.1035
	.9	-.0219	.0922	.9931	-.0634	-.0219	-.0219	.0703	-.9297	.0634	.0634
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0114	-.0474	.9749	.0611	.0114	.0114	-.0360	-.0360	.9389	-.0611
	.2	.0191	-.0796	.9261	.1344	.0191	.0191	-.0605	-.0605	.8656	-.1344
	.3	.0237	-.0987	.8563	.2187	.0237	.0237	-.0750	-.0750	.7813	-.2187
	.4	.0255	-.1062	.7681	.3126	.0255	.0255	-.0807	-.0807	.6874	-.3126
	.5	.0249	-.1037	.6642	.4146	.0249	.0249	-.0788	-.0788	.5854	-.4146
	.6	.0223	-.0929	.5471	.5235	.0223	.0223	-.0706	-.0706	.4765	-.5235
	.7	.0181	-.0754	.4195	.6378	.0181	.0181	-.0573	-.0573	.3622	-.6378
	.8	.0128	-.0532	.2841	.7563	.0128	.0128	-.0404	-.0404	.2437	-.7563
	.9	.0066	-.0273	.1433	.8774	.0066	.0066	-.0207	-.0207	.1226	-.8774
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4597	1.4201	1.4201	.4597	.4597	.0166	.7525	.0525	.6676	.1107
- Area		-.1107	-.0691	-.0691	-.1107	-.1107	-.6676	-.0525	-.7525	-.0166	-.4597
Total Area		.3490	1.3510	1.3510	.3490	.3490	-.6510	.7000	-.7000	.6510	-.3490

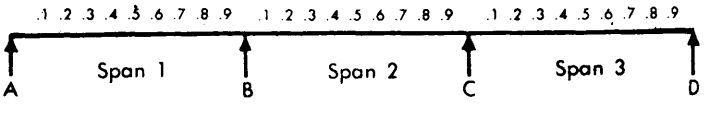
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.4

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0878	.0756	.0635	.0513	.0391	.0269	.0148	.0026	-.0096	-.0218	-.0189	-.0161	-.0133	-.0104	-.0076	-.0048	-.0020	.0009	.0037	.0065
	.2	0	.0758	.1516	.1273	.1031	.0789	.0547	.0305	.0062	-.0180	-.0422	-.0367	-.0312	-.0257	-.0203	-.0148	-.0093	-.0038	.0017	.0072	.0127
	.3	0	.0640	.1280	.1920	.1560	.1200	.0840	.0480	.0120	-.0240	-.0600	-.0522	-.0444	-.0366	-.0288	-.0210	-.0132	-.0054	.0024	.0102	.0180
	.4	0	.0526	.1052	.1578	.2105	.1631	.1157	.0683	.0209	-.0265	-.0738	-.0642	-.0546	-.0450	-.0354	-.0258	-.0162	-.0066	.0030	.0126	.0222
	.5	0	.0418	.0835	.1253	.1670	.2088	.1505	.0923	.0341	-.0242	-.0824	-.0717	-.0610	-.0503	-.0396	-.0288	-.0181	-.0074	.0033	.0140	.0247
	.6	0	.0316	.0631	.0947	.1262	.1578	.1894	.1209	.0525	-.0160	-.0844	-.0734	-.0625	-.0515	-.0406	-.0295	-.0186	-.0076	.0034	.0143	.0253
	.7	0	.0222	.0443	.0665	.0886	.1108	.1329	.1551	.0772	-.0006	-.0785	-.0683	-.0581	-.0479	-.0377	-.0275	-.0173	-.0071	.0031	.0133	.0235
	.8	0	.0137	.0273	.0410	.0547	.0684	.0820	.0957	.1094	.0230	-.0633	-.0551	-.0468	-.0386	-.0304	-.0222	-.0139	-.0057	.0025	.0108	.0190
	.9	0	.0062	.0125	.0187	.0250	.0312	.0375	.0437	.0499	.0562	-.0376	-.0327	-.0278	-.0229	-.0180	-.0132	-.0083	-.0034	.0015	.0064	.0113
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0070	-.0140	-.0210	-.0279	-.0349	-.0419	-.0489	-.0559	-.0629	-.0699	.0698	.0594	.0490	.0386	.0283	.0179	.0075	-.0028	-.0132	-.0236
	.2	0	-.0114	-.0228	-.0342	-.0456	-.0570	-.0684	-.0798	-.0911	-.1025	-.1139	.0122	.1384	.1146	.0908	.0669	.0431	.0193	-.0046	-.0284	-.0522
	.3	0	-.0136	-.0272	-.0408	-.0544	-.0680	-.0816	-.0952	-.1088	-.1224	-.1360	-.0256	.0848	.1952	.1556	.1160	.0764	.0368	-.0028	-.0424	-.0820
	.4	0	-.0140	-.0280	-.0420	-.0560	-.0700	-.0840	-.0980	-.1120	-.1260	-.1400	-.0470	.0461	.1392	.2323	.1754	.1185	.0616	.0046	-.0523	-.1092
	.5	0	-.0130	-.0260	-.0389	-.0519	-.0649	-.0779	-.0909	-.1038	-.1168	-.1298	-.0548	.0202	.0952	.1702	.2452	.1702	.0952	.0202	-.0548	-.1298
	.6	0	-.0109	-.0218	-.0328	-.0437	-.0546	-.0655	-.0764	-.0873	-.0983	-.1092	-.0523	.0046	.0616	.1185	.1754	.2323	.1392	.0461	-.0470	-.1400
	.7	0	-.0082	-.0164	-.0246	-.0328	-.0410	-.0492	-.0574	-.0656	-.0738	-.0820	-.0424	-.0028	.0368	.0764	.1160	.1556	.1952	.0848	-.0256	-.1360
	.8	0	-.0052	-.0104	-.0157	-.0209	-.0261	-.0313	-.0366	-.0418	-.0470	-.0522	-.0284	-.0046	.0193	.0431	.0669	.0908	.1146	.1384	.0122	-.1139
	.9	0	-.0024	-.0047	-.0071	-.0094	-.0118	-.0142	-.0165	-.0189	-.0212	-.0236	-.0132	-.0028	.0075	.0179	.0283	.0386	.0490	.0594	.0698	-.0699
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0023	.0034	.0045	.0057	.0068	.0079	.0090	.0102	.0113	.0064	.0015	-.0034	-.0083	-.0132	-.0180	-.0229	-.0278	-.0327	-.0376
	.2	0	.0019	.0038	.0057	.0076	.0095	.0114	.0133	.0152	.0171	.0190	.0108	.0025	-.0057	-.0139	-.0222	-.0304	-.0386	-.0468	-.0551	-.0633
	.3	0	.0024	.0047	.0071	.0094	.0118	.0141	.0165	.0188	.0212	.0235	.0133	.0031	-.0071	-.0173	-.0275	-.0377	-.0479	-.0581	-.0683	-.0785
	.4	0	.0025	.0051	.0076	.0101	.0127	.0152	.0177	.0202	.0228	.0253	.0143	.0034	-.0076	-.0186	-.0295	-.0406	-.0515	-.0625	-.0734	-.0844
	.5	0	.0025	.0049	.0074	.0099	.0124	.0148	.0173	.0198	.0222	.0247	.0140	.0033	-.0074	-.0181	-.0288	-.0396	-.0503	-.0610	-.0717	-.0824
	.6	0	.0022	.0044	.0067	.0089	.0111	.0133	.0155	.0178	.0200	.0222	.0126	.0030	-.0066	-.0162	-.0258	-.0354	-.0450	-.0546	-.0642	-.0738
	.7	0	.0018	.0036	.0054	.0072	.0090	.0108	.0126	.0144	.0162	.0180	.0102	.0024	-.0054	-.0132	-.0210	-.0288	-.0366	-.0444	-.0522	-.0600
	.8	0	.0013	.0025	.0038	.0051	.0064	.0076	.0089	.0102	.0114	.0127	.0072	.0017	-.0038	-.0093	-.0148	-.0203	-.0257	-.0312	-.0367	-.0422
	.9	0	.0007	.0013	.0020	.0026	.0033	.0039	.0046	.0052	.0059	.0065	.0037	.0009	-.0020	-.0048	-.0076	-.0104	-.0133	-.0161	-.0189	-.0218
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0412	.0723	.0934	.1046	.1057	.0969	.0781	.0492	.0225	.0166	.0204	.0539	.1065	.1402	.1515	.1402	.1065	.0539	.0204	.0166
– Area		0	-.0130	-.0260	-.0389	-.0519	-.0648	-.0779	-.0909	-.1038	-.1289	-.1848	-.0874	-.0422	-.0385	-.0385	-.0385	-.0385	-.0385	-.0422	-.0874	-.1848
Total Area		0	.0282	.0463	.0545	.0527	.0409	.0190	-.0128	-.0546	-.1064	-.1682	-.0670	.0117	.0680	.1017	.1130	.1017	.0680	.0117	-.0670	-.1682

TABLE A3.5



	Unit load at	REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8782	.1406	-.0253	.0065	.8782	-.1218	.0188	.0188	-.0065	-.0065
	.2	.7578	.2788	-.0493	.0127	.7578	-.2422	.0366	.0366	-.0127	-.0127
	.3	.6400	.4120	-.0700	.0180	.6400	-.3600	.0520	.0520	-.0180	-.0180
	.4	.5262	.5378	-.0862	.0222	.5262	-.4738	.0640	.0640	-.0222	-.0222
	.5	.4176	.6538	-.0961	.0247	.4176	-.5824	.0714	.0714	-.0247	-.0247
	.6	.3156	.7575	-.0984	.0253	.3156	-.6844	.0731	.0731	-.0253	-.0253
	.7	.2215	.8465	-.0915	.0235	.2215	-.7785	.0680	.0680	-.0235	-.0235
	.8	.1367	.9182	-.0739	.0190	.1367	-.8633	.0549	.0549	-.0190	-.0190
	.9	.0624	.9702	-.0439	.0113	.0624	-.9376	.0326	.0326	-.0113	-.0113
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0699	1.0007	.0928	-.0236	-.0699	-.0699	.9308	-.0692	.0236	.0236
	.2	-.1139	.9551	.2110	-.0522	-.1139	-.1139	.8412	-.1588	.0522	.0522
	.3	-.1360	.8720	.3460	-.0820	-.1360	-.1360	.7360	-.2640	.0820	.0820
	.4	-.1400	.7606	.4886	-.1092	-.1400	-.1400	.6206	-.3794	.1092	.1092
	.5	-.1298	.6298	.6298	-.1298	-.1298	-.1298	.5000	-.5000	.1298	.1298
	.6	-.1092	.4886	.7606	-.1400	-.1092	-.1092	.3794	-.6206	.1400	.1400
	.7	-.0820	.3460	.8720	-.1360	-.0820	-.0820	.2640	-.7360	.1360	.1360
	.8	-.0522	.2110	.9551	-.1139	-.0522	-.0522	.1588	-.8412	.1139	.1139
	.9	-.0236	.0928	1.0007	-.0699	-.0236	-.0236	.0692	-.9308	.0699	.0699
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0113	-.0439	.9702	.0624	.0113	.0113	-.0326	-.0326	.9376	-.0624
	.2	.0190	-.0739	.9182	.1367	.0190	.0190	-.0549	-.0549	.8633	-.1367
	.3	.0235	-.0915	.8465	.2215	.0235	.0235	-.0680	-.0680	.7785	-.2215
	.4	.0253	-.0984	.7575	.3156	.0253	.0253	-.0731	-.0731	.6844	-.3156
	.5	.0247	-.0961	.6538	.4176	.0247	0247	-.0714	-.0714	5824	-.4176
	.6	.0222	-.0862	.5378	.5262	.0222	.0222	-.0640	-.0640	.4738	-.5262
	.7	.0180	-.0700	.4120	.6400	.0180	.0180	-.0520	-.0520	.3600	-.6400
	.8	.0127	-.0493	.2788	.7578	.0127	.0127	-.0366	-.0366	.2422	-.7578
	.9	.0065	-.0253	.1406	.8782	.0065	.0065	-.0188	-.0188	.1218	-.8782
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4615	1.4824	1.4824	.4615	.4615	.0165	.7976	.0476	6847	.1298
- Area		-.1298	-.0641	-.0641	-.1298	-.1298	-.6847	-.0476	-.7976	-.0165	-.4615
Total Area		.3317	1.4183	1.4183	.3317	.3317	-.6682	.7500	-.7500	.6682	-.3317

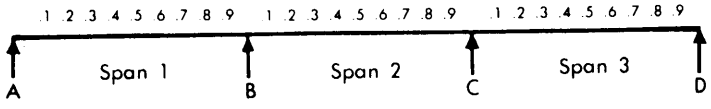
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.5

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0879	.0758	.0637	.0516	.0395	.0274	.0153	.0032	-.0089	-.0210	-.0183	-.0155	-.0128	-.0100	-.0073	-.0045	-.0018	.0010	.0037	.0065
	.2	0	.0759	.1598	.1278	.1037	.0796	.0555	.0315	.0074	-.0167	-.0408	-.0355	-.0301	-.0248	-.0195	-.0141	-.0088	-.0035	.0019	.0072	.0125
	.3	0	.0642	.1284	.1926	.1568	.1210	.0852	.0494	.0136	-.0222	-.0580	-.0504	-.0428	-.0352	-.0277	-.0201	-.0125	-.0049	.0027	.0103	.0178
	.4	0	.0529	.1057	.1586	.2115	.1643	.1172	.0700	.0229	-.0242	-.0714	-.0620	-.0527	-.0434	-.0340	-.0247	-.0154	-.0060	.0033	.0126	.0220
	.5	0	.0420	.0841	.1261	.1681	.2102	.1522	.0942	.0363	-.0217	-.0797	-.0692	-.0588	-.0484	-.0380	-.0276	-.0172	-.0067	.0037	.0141	.0245
	.6	0	.0318	.0637	.0955	.1274	.1592	.1911	.1229	.0547	-.0134	-.0816	-.0709	-.0602	-.0496	-.0389	-.0282	-.0176	-.0069	.0038	.0144	.0251
	.7	0	.0224	.0448	.0673	.0897	.1121	.1345	.1569	.0793	.0018	-.0758	-.0659	-.0560	-.0461	-.0362	-.0262	-.0163	-.0064	.0035	.0134	.0233
	.8	0	.0139	.0278	.0416	.0555	.0694	.0833	.0972	.1111	.0249	-.0612	-.0532	-.0452	-.0372	-.0292	-.0212	-.0132	-.0052	.0028	.0108	.0188
	.9	0	.0064	.0127	.0191	.0255	.0318	.0382	.0446	.0509	.0573	-.0363	-.0316	-.0268	-.0221	-.0173	-.0125	-.0078	-.0031	.0017	.0064	.0112
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0076	-.0153	-.0229	-.0306	-.0382	-.0459	-.0535	-.0611	-.0688	-.0764	.0727	.0618	.0509	.0401	.0292	.0183	.0074	-.0035	-.0143	-.0252
	.2	0	-.0124	-.0249	-.0373	-.0498	-.0622	-.0747	-.0871	-.0996	-.1120	-.1245	.0103	.1452	.1200	.0948	.0696	.0445	.0193	-.0059	-.0310	-.0562
	.3	0	-.0148	-.0297	-.0445	-.0594	-.0742	-.0891	-.1039	-.1188	-.1336	-.1485	-.0305	.0875	.2055	.1634	.1214	.0794	.0374	-.0047	-.0467	-.0887
	.4	0	-.0153	-.0305	-.0458	-.0610	-.0763	-.0916	-.1068	-.1221	-.1373	-.1526	-.0532	.0462	.1456	.2451	.1845	.1239	.0633	.0027	-.0579	-.1183
	.5	0	-.0141	-.0282	-.0424	-.0565	-.0706	-.0847	-.0988	-.1129	-.1271	-.1412	-.0612	.0188	.0988	.1788	.2588	.1788	.0988	.0188	-.0612	-.1412
	.6	0	-.0118	-.0237	-.0355	-.0474	-.0592	-.0711	-.0829	-.0948	-.1066	-.1183	-.0579	.0027	.0633	.1239	.1845	.2451	.1456	.0462	-.0532	-.1526
	.7	0	-.0089	-.0177	-.0266	-.0355	-.0444	-.0532	-.0621	-.0710	-.0798	-.0887	-.0467	-.0047	.0374	.0794	.1214	.1634	.2055	.0875	-.0305	-.1485
	.8	0	-.0056	-.0112	-.0169	-.0225	-.0281	-.0337	-.0394	-.0450	-.0506	-.0562	-.0310	-.0059	.0193	.0445	.0696	.0948	.1200	.1452	.0103	-.1245
	.9	0	-.0025	-.0050	-.0076	-.0101	-.0126	-.0151	-.0177	-.0202	-.0227	-.0252	-.0143	-.0035	.0074	.0183	.0292	.0401	.0509	.0618	.0727	-.0764
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0022	.0034	.0045	.0056	.0067	.0078	.0090	.0101	.0112	.0064	.0017	-.0031	-.0078	-.0125	-.0173	-.0221	-.0268	-.0316	-.0363
	.2	0	.0019	.0038	.0056	.0075	.0094	.0113	.0132	.0150	.0169	.0188	.0108	.0028	-.0052	-.0132	-.0212	-.0292	-.0372	-.0452	-.0532	-.0612
	.3	0	.0023	.0047	.0070	.0093	.0117	.0140	.0163	.0186	.0210	.0233	.0134	.0035	-.0064	-.0163	-.0262	-.0362	-.0461	-.0560	-.0659	-.0758
	.4	0	.0025	.0050	.0075	.0100	.0126	.0151	.0176	.0201	.0226	.0251	.0144	.0038	-.0069	-.0176	-.0282	-.0389	-.0496	-.0602	-.0709	-.0816
	.5	0	.0025	.0049	.0074	.0098	.0123	.0147	.0172	.0196	.0221	.0245	.0141	.0037	-.0067	-.0172	-.0276	-.0380	-.0484	-.0588	-.0692	-.0797
	.6	0	.0022	.0044	.0066	.0088	.0110	.0132	.0154	.0176	.0198	.0220	.0126	.0033	-.0060	-.0154	-.0247	-.0340	-.0434	-.0527	-.0620	-.0714
	.7	0	.0018	.0036	.0053	.0071	.0089	.0107	.0125	.0142	.0160	.0178	.0103	.0027	-.0049	-.0125	-.0201	-.0277	-.0352	-.0428	-.0504	-.0580
	.8	0	.0013	.0025	.0038	.0050	.0063	.0075	.0088	.0100	.0113	.0125	.0072	.0019	-.0035	-.0088	-.0141	-.0195	-.0248	-.0301	-.0355	-.0408
	.9	0	.0007	.0013	.0020	.0026	.0033	.0039	.0046	.0052	.0059	.0065	.0037	.0010	-.0018	-.0045	-.0073	-.0100	-.0128	-.0155	-.0183	-.0210
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0413	.0727	.0940	.1053	.1066	.0979	.0793	.0506	.0228	.0163	.0214	.0589	.1182	.1566	.1694	.1566	.1182	.0589	.0214	.0163
– Area		0	-.0150	-.0302	-.0452	-.0602	-.0753	-.0903	-.1054	-.1205	-.1464	-.2037	-.0935	-.0415	-.0368	-.0368	-.0368	-.0368	-.0368	-.0415	-.0935	-.2037
Total Area		0	.0263	.0425	.0488	.0451	.0313	.0076	-.0261	-.0699	-.1236	-.1874	-.0721	-.0174	.0814	.1198	.1326	.1198	.0814	.0174	-.0721	-.1874

TABLE A3.6



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8790	.1382	-.0237	.0065	.8790	-.1210	.0172	.0172	-.0065	-.0065
	.2	.7592	.2741	-.0458	.0125	.7592	-.2408	.0333	.0333	-.0125	-.0125
	.3	.6420	.4054	-.0652	.0178	.6420	-.3580	.0474	.0474	-.0178	-.0178
	.4	.5286	.5297	-.0803	.0220	.5286	-.4714	.0583	.0583	-.0220	-.0220
	.5	.4203	.6448	-.0896	.0245	.4203	-.5797	.0651	.0651	-.0245	-.0245
	.6	.3134	.7482	-.0917	.0251	.3184	-.6816	.0666	.0666	-.0251	-.0251
	.7	.2242	.8378	-.0853	.0233	.2242	-.7758	.0620	.0620	-.0233	-.0233
	.8	.1388	.9112	-.0688	.0188	.1388	-.8612	.0500	-.0500	-.0188	-.0188
	.9	.0637	.9660	-.0409	.0112	.0637	-.9363	.0297	.0297	-.0112	-.0112
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0764	1.0084	.0932	-.0252	-.0764	-.0764	.9320	-.0680	.0252	.0252
	.2	-.1245	.9672	.2135	-.0562	-.1245	-.1245	.8427	-.1573	-.0562	.0562
	.3	-.1485	.8858	.3514	-.0887	-.1485	-.1485	.7373	-.2627	.0887	.0887
	.4	-.1526	.7739	.4972	-.1185	-.1526	-.1526	.6213	-.3787	.1185	.1185
	.5	-.1412	.6412	.6412	-.1412	-.1412	-.1412	.5000	.5000	.1412	.1412
	.6	-.1185	.4972	.7739	-.1526	-.1185	.1185	.3787	-.6213	.1526	.1526
	.7	-.0887	.3514	.8858	-.1485	-.0887	-.0887	.2627	-.7373	.1485	.1485
	.8	-.0562	.2135	.9672	-.1245	-.0562	-.0562	.1573	-.8427	.1245	.1245
	.9	-.0252	.0932	1.0084	-.0764	-.0252	-.0252	.0680	-.9320	.0764	.0764
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0112	-.0409	.9660	.0637	.0112	.0112	-.0297	-.0297	.9363	-.0637
	.2	.0188	-.0688	.9112	.1388	.0188	.0188	-.0500	-.0500	.8612	-.1388
	.3	.0233	-.0853	.8378	.2242	.0233	.0233	-.0620	-.0620	.7758	-.2242
	.4	.0251	-.0917	.7482	.3184	.0251	.0251	-.0666	-.0666	.6816	-.3184
	.5	.0245	-.0896	.6448	.4203	.0245	.0245	-.0651	-.0651	.5797	-.4203
	.6	.0220	-.0803	.5297	.5286	.0220	.0220	-.0583	-.0583	.4714	-.5286
	.7	.0178	-.0652	.4054	.6420	.0178	.0178	-.0474	-.0474	.3580	-.6420
	.8	.0125	-.0458	.2741	.7592	.0125	.0125	-.0333	-.0333	.2408	-.7592
	.9	.0065	-.0237	.1382	.8790	.0065	.0065	-.0172	-.0172	.1210	-.8790
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4632	1.5471	1.5471	.4632	.4632	.0163	.8434	.0434	.7037	.1506
- Area		-.1506	-.0597	-.0597	-.1506	-.1506	-.7037	-.0434	-.8434	-.0163	-.4632
Total Area		.3126	1.4874	1.4874	.3126	.3126	-.6874	.8000	-.8000	.6874	-.3126

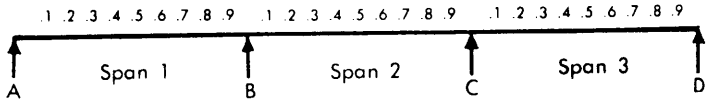
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.6

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0880	.0759	.0639	.0519	.0398	.0278	.0158	.0037	-.0083	-.0204	-.0177	-.0150	-.0123	-.0096	-.0070	-.0043	-.0016	.0011	.0037	.0064
	.2	0	.0761	.1521	.1282	.1042	.0803	.0563	.0324	.0084	-.0155	-.0395	-.0343	-.0291	-.0239	-.0187	-.0135	-.0083	-.0031	.0020	.0072	.0124
	.3	0	.0644	.1288	.1932	.1576	.1219	.0863	.0507	.0151	-.0205	-.0561	-.0487	-.0414	-.0340	-.0266	-.0192	-.0118	-.0045	.0029	.0103	.0177
	.4	0	.0531	.1062	.1593	.2124	.1655	.1186	.0717	.0247	-.0222	-.0691	-.0600	-.0509	-.0418	-.0327	-.0237	-.0146	-.0055	.0036	.0127	.0217
	.5	0	.0423	.0846	.1269	.1692	.2115	.1537	.0960	.0383	-.0194	-.0771	-.0669	-.0563	-.0467	-.0365	-.0264	-.0163	-.0061	.0040	.0141	.0243
	.6	0	.0321	.0642	.0963	.1284	.1605	.1926	.1247	.0569	-.0110	-.0789	-.0686	-.0582	-.0478	-.0374	-.0270	-.0167	-.0063	.0041	.0145	.0248
	.7	0	.0227	.0453	.0680	.0906	.1133	.1360	.1586	.0813	.0040	-.0734	-.0637	-.0541	-.0444	-.0348	-.0251	-.0155	-.0058	.0038	.0135	.0231
	.8	0	.0141	.0282	.0422	.0563	.0704	.0845	.0986	.1126	.0267	-.0592	-.0514	-.0436	-.0358	-.0281	-.0203	-.0125	-.0047	.0031	.0109	.0186
	.9	0	.0065	.0130	.0195	.0259	.0324	.0389	.0454	.0519	.0584	-.0352	-.0305	-.0259	-.0213	-.0167	-.0120	-.0074	-.0028	.0018	.0064	.0111
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0083	-.0166	-.0249	-.0332	-.0415	-.0498	-.0581	-.0665	-.0748	-.0831	.0756	.0642	.0528	.0414	.0300	.0187	.0073	-.0041	-.0155	-.0268
	.2	0	-.0135	-.0270	-.0406	-.0541	-.0676	-.0811	-.0946	-.1081	-.1217	-.1352	.0083	.1518	.1253	.0988	.0723	.0458	.0193	-.0072	-.0337	-.0602
	.3	0	-.0161	-.0322	-.0483	-.0644	-.0805	-.0966	-.1127	-.1288	-.1449	-.1610	-.0355	.0901	.2157	.1712	.1268	.0823	.0379	-.0065	-.0510	-.0954
	.4	0	-.0165	-.0331	-.0496	-.0661	-.0826	-.0992	-.1157	-.1322	-.1488	-.1653	-.0595	.0462	.1520	.2577	.1935	.1292	.0650	.0007	-.0635	-.1278
	.5	0	-.0153	-.0305	-.0458	-.0611	-.0763	-.0916	-.1068	-.1221	-.1374	-.1526	-.0676	.0174	.1024	.1874	.2724	.1874	.1024	.0174	-.0676	-.1526
	.6	0	-.0128	-.0256	-.0383	-.0511	-.0639	-.0767	-.0895	-.1022	-.1150	-.1278	-.0635	.0007	.0650	.1292	.1935	.2577	.1520	.0462	-.0595	-.1653
	.7	0	-.0095	-.0191	-.0286	-.0382	-.0477	-.0572	-.0668	-.0763	-.0859	-.0954	-.0510	-.0065	.0379	.0823	.1268	.1712	.2157	.0901	-.0355	-.1610
	.8	0	-.0060	-.0120	-.0181	-.0241	-.0301	-.0361	-.0421	-.0482	-.0542	-.0602	-.0337	-.0072	.0193	.0458	.0723	.0988	.1253	.1518	.0083	-.1352
	.9	0	-.0027	-.0054	-.0080	-.0107	-.0134	-.0161	-.0188	-.0215	-.0241	-.0268	-.0155	-.0041	.0073	.0187	.0300	.0414	.0528	.0642	.0756	-.0831
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0011	.0022	.0033	.0044	.0056	.0067	.0078	.0089	.0100	.0111	.0064	.0018	-.0028	-.0074	-.0120	-.0167	-.0213	-.0259	-.0305	-.0352
	.2	0	.0019	.0037	.0056	.0074	.0093	.0112	.0130	.0149	.0167	.0186	.0109	.0031	-.0047	-.0125	-.0203	-.0281	-.0358	-.0436	-.0514	-.0592
	.3	0	.0023	.0046	.0069	.0092	.0116	.0139	.0162	.0185	.0208	.0231	.0135	.0038	-.0058	-.0155	-.0251	-.0348	-.0444	-.0541	-.0637	-.0734
	.4	0	.0025	.0050	.0074	.0099	.0124	.0149	.0174	.0198	.0223	.0248	.0145	.0041	-.0063	-.0167	-.0270	-.0374	-.0478	-.0582	-.0686	-.0789
	.5	0	.0024	.0049	.0073	.0097	.0122	.0146	.0170	.0194	.0219	.0243	.0141	.0040	-.0061	-.0163	-.0264	-.0365	-.0467	-.0568	-.0669	-.0771
	.6	0	.0022	.0043	.0065	.0087	.0109	.0130	.0152	.0174	.0195	.0217	.0127	.0036	-.0055	-.0146	-.0237	-.0327	-.0418	-.0509	-.0600	-.0691
	.7	0	.0018	.0035	.0053	.0071	.0089	.0106	.0124	.0142	.0159	.0177	.0103	.0029	-.0045	-.0118	-.0192	-.0266	-.0340	-.0414	-.0487	-.0561
	.8	0	.0012	.0025	.0037	.0050	.0062	.0074	.0087	.0099	.0112	.0124	.0072	.0020	-.0031	-.0083	-.0135	-.0187	-.0239	-.0291	-.0343	-.0395
	.9	0	.0006	.0013	.0019	.0026	.0032	.0038	.0045	.0051	.0058	.0064	.0037	.0011	-.0016	-.0043	-.0070	-.0096	-.0123	-.0150	-.0177	-.0204
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0415	.0729	.0945	.1060	.1074	.0989	.0804	.0518	.0231	.0162	.0224	.0641	.1304	.1738	.1882	.1738	.1304	.0641	.0224	.0162
– Area		0	-.0173	-.0345	-.0520	-.0693	-.0865	-.1038	-.1211	-.1384	-.1655	-.2244	-.1006	-.0411	-.0352	-.0352	-.0352	-.0352	-.0352	-.0411	-.1006	-.2244
Total Area		0	.0242	.0384	.0425	.0367	.0209	-.0049	-.0407	-.0866	-.1424	-.2082	-.0782	.0230	.0952	.1386	.1530	.1386	.0952	.0230	-.0782	-.2082

TABLE A3.7



Unit load at		REACTIONS/P				SHEARS/P					
		R_A	R_B	R_C	R_D	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}
SPAN 1	A	1.0	0	0	0	1.0	0	0	0	0	0
	.1	.8796	.1361	-.0221	.0064	.8796	-.1204	.0157	.0157	-.0064	-.0064
	.2	.7605	.2700	-.0429	.0124	.7605	-.2395	.0305	.0305	-.0124	-.0124
	.3	.6439	.3995	-.0611	.0177	.6439	-.3561	.0434	.0434	-.0177	-.0177
	.4	.5309	.5225	-.0751	.0217	.5309	-.4691	.0534	.0534	-.0217	-.0217
	.5	.4229	.6367	-.0839	.0243	.4229	-.5771	.0596	.0596	-.0243	-.0243
	.6	.3211	.7400	-.0859	.0248	.3211	-.6789	.0611	.0611	-.0248	-.0248
	.7	.2266	.8301	-.0798	.0231	.2266	-.7734	.0567	.0567	-.0231	-.0231
	.8	.1408	.9050	-.0644	.0186	.1408	-.8592	.0458	.0458	-.0186	-.0186
	.9	.0648	.9623	-.0382	.0111	.0648	-.9352	.0271	.0271	-.0111	-.0111
	B	0	1.0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 2	.1	-.0831	1.0161	.0938	-.0268	-.0831	-.0831	.9330	-.0670	.0268	.0268
	.2	-.1352	.9793	.2161	-.0602	-.1352	-.1352	.8441	-.1559	.0602	.0602
	.3	-.1610	.8996	.3568	-.0954	-.1610	-.1610	.7386	-.2614	.0954	.0954
	.4	-.1653	.7874	.5057	-.1278	-.1653	-.1653	.6221	-.3779	.1278	.1278
	.5	-.1526	.6526	.6526	-.1526	-.1526	-.1526	.5000	-.5000	.1526	.1526
	.6	-.1278	.5057	.7874	-.1653	-.1278	-.1278	.3779	-.6221	.1653	.1653
	.7	-.0954	.3568	.8996	-.1610	-.0954	-.0954	.2614	-.7386	.1610	.1610
	.8	-.0602	.2161	.9793	-.1352	-.0602	-.0602	.1559	-.8441	.1352	.1352
	.9	-.0268	.0938	1.0161	-.0831	-.0268	-.0268	.0670	-.9330	.0831	.0831
	C	0	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 3	.1	.0111	-.0382	.9623	.0648	.0111	.0111	-.0271	-.0271	.9352	-.0648
	.2	.0186	-.0644	.9050	.1408	.0186	.0186	-.0458	-.0458	.8592	-.1408
	.3	.0231	-.0798	.8301	.2266	.0231	.0231	-.0567	-.0567	.7734	-.2266
	.4	.0248	-.0859	.7400	.3211	.0248	.0248	-.0611	-.0611	.6789	-.3211
	.5	.0243	-.0839	.6367	.4229	.0243	.0243	-.0596	-.0596	.5771	-.4229
	.6	.0217	-.0751	.5225	.5309	.0217	.0217	-.0534	-.0534	.4691	-.5309
	.7	.0177	-.0611	.3995	.6439	.0177	.0177	-.0434	-.0434	.3561	-.6439
	.8	.0124	-.0429	.2700	.7605	.0124	.0124	-.0305	-.0305	.2395	-.7605
	.9	.0064	-.0221	.1361	.8796	.0064	.0064	-.0157	-.0157	.1204	-.8796
	D	0	0	0	1.0	0	0	0	0	0	-1.0
+ Area		.4648	1.6141	1.6141	.4648	.4648	.0162	.8897	.0397	.7244	.1730
- Area		-.1730	-.0559	-.0559	-.1730	-.1730	-.7244	-.0397	-.8897	-.0162	-.4648
Total Area		.2918	1.5582	1.5582	.2918	.2918	-.7082	.8500	-.8500	.7082	-.2918

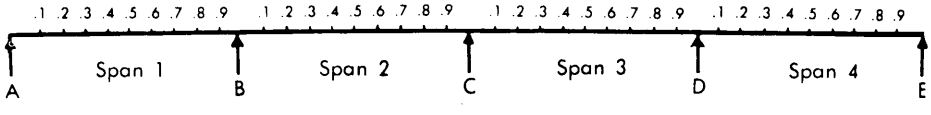
Influence coefficients — Three continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.7

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0873	.0747	.0620	.0494	.0367	.0241	.0114	-.0012	-.0139	-.0265	-.0232	-.0198	-.0164	-.0131	-.0097	-.0064	-.0030	.0004	.0037	.0071
	.2	0	.0749	.1497	.1246	.0994	.0743	.0491	.0240	-.0011	-.0263	-.0514	-.0449	-.0384	-.0319	-.0254	-.0189	-.0123	-.0058	.0007	.0072	.0137
	.3	0	.0627	.1254	.1881	.1508	.1134	.0761	.0388	.0015	-.0358	-.0731	-.0639	-.0546	-.0453	-.0361	-.0268	-.0176	-.0083	.0010	.0102	.0195
	.4	0	.0510	.1020	.1530	.2040	.1550	.1060	.0570	.0080	-.0410	-.0900	-.0786	-.0672	-.0558	-.0444	-.0330	-.0216	-.0102	.0012	.0126	.0240
	.5	0	.0400	.0799	.1199	.1598	.1998	.1397	.0797	.0196	-.0404	-.1004	-.0877	-.0750	-.0623	-.0496	-.0368	-.0241	-.0114	.0013	.0141	.0268
	.6	0	.0297	.0594	.0891	.1189	.1486	.1783	.1080	.0377	-.0326	-.1029	-.0898	-.0768	-.0638	-.0507	-.0377	-.0247	-.0117	.0014	.0144	.0274
	.7	0	.0204	.0409	.0613	.0818	.1022	.1226	.1431	.0635	-.0161	-.0956	-.0835	-.0714	-.0593	-.0472	-.0351	-.0230	-.0108	.0013	.0134	.0255
	.8	0	.0123	.0246	.0369	.0491	.0614	.0737	.0860	.0983	.0106	-.0771	-.0674	-.0576	-.0478	-.0381	-.0283	-.0185	-.0087	.0010	.0108	.0206
	.9	0	.0054	.0108	.0163	.0217	.0271	.0325	.0379	.0434	.0488	-.0458	-.0400	-.0342	-.0284	-.0226	-.0168	-.0110	-.0052	.0006	.0064	.0122
SPAN 2	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0039	-.0077	-.0116	-.0155	-.0194	-.0232	-.0271	-.0310	-.0349	-.0387	.0535	.0458	.0381	.0303	.0226	.0149	.0071	-.0006	-.0083	-.0161
	.2	0	-.0063	-.0127	-.0190	-.0254	-.0317	-.0381	-.0444	-.0507	-.0571	-.0634	.0195	.1024	.0853	.0682	.0511	.0341	.0170	-.0001	-.0172	-.0343
	.3	0	-.0076	-.0152	-.0228	-.0305	-.0381	-.0457	-.0533	-.0609	-.0685	-.0761	-.0038	.0686	.1410	.1133	.0857	.0581	.0304	.0028	-.0249	-.0525
	.4	0	-.0079	-.0158	-.0237	-.0315	-.0394	-.0473	-.0552	-.0631	-.0710	-.0789	-.0178	.0432	.1042	.1653	.1263	.0873	.0483	.0094	-.0296	-.0686
	.5	0	-.0074	-.0147	-.0221	-.0295	-.0368	-.0442	-.0516	-.0589	-.0663	-.0737	-.0243	.0250	.0743	.1237	.1730	.1223	.0717	.0210	-.0297	-.0804
	.6	0	-.0063	-.0125	-.0188	-.0250	-.0313	-.0375	-.0438	-.0501	-.0563	-.0626	-.0249	.0128	.0505	.0882	.1259	.1635	.1012	.0389	-.0234	-.0857
	.7	0	-.0048	-.0095	-.0143	-.0191	-.0238	-.0286	-.0333	-.0381	-.0429	-.0476	-.0211	.0054	.0319	.0584	.0849	.1115	.1380	.0645	-.0090	-.0825
	.8	0	-.0031	-.0062	-.0093	-.0123	-.0154	-.0185	-.0216	-.0247	-.0278	-.0309	-.0146	.0016	.0178	.0341	.0503	.0665	.0827	.0990	.0152	-.0686
	.9	0	-.0014	-.0029	-.0043	-.0057	-.0072	-.0086	-.0100	-.0114	-.0129	-.0143	-.0071	.0002	.0075	.0147	.0220	.0292	.0365	.0437	.0510	-.0418
SPAN 3	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0010	.0021	.0031	.0042	.0052	.0063	.0073	.0084	.0094	.0104	.0052	.0000	-.0052	-.0104	-.0157	-.0209	-.0261	-.0313	-.0366	-.0418
	.2	0	.0017	.0034	.0051	.0069	.0086	.0103	.0120	.0137	.0154	.0171	.0086	.0000	-.0086	-.0171	-.0257	-.0343	-.0429	-.0514	-.0600	-.0686
	.3	0	.0021	.0041	.0062	.0083	.0103	.0124	.0144	.0165	.0186	.0206	.0103	.0000	-.0103	-.0206	-.0309	-.0413	-.0516	-.0619	-.0722	-.0825
	.4	0	.0021	.0043	.0064	.0086	.0107	.0129	.0150	.0171	.0193	.0214	.0107	.0000	-.0107	-.0214	-.0321	-.0429	-.0536	-.0643	-.0750	-.0857
	.5	0	.0020	.0040	.0060	.0080	.0100	.0121	.0141	.0161	.0181	.0201	.0100	.0000	-.0100	-.0201	-.0301	-.0402	-.0502	-.0603	-.0703	-.0804
	.6	0	.0017	.0034	.0051	.0069	.0086	.0103	.0120	.0137	.0154	.0171	.0086	.0000	-.0086	-.0171	-.0257	-.0343	-.0429	-.0514	-.0600	-.0686
	.7	0	.0013	.0026	.0039	.0053	.0066	.0079	.0092	.0105	.0118	.0131	.0066	.0000	-.0066	-.0131	-.0197	-.0263	-.0328	-.0394	-.0459	-.0525
	.8	0	.0009	.0017	.0026	.0034	.0043	.0051	.0060	.0069	.0077	.0086	.0043	.0000	-.0043	-.0086	-.0129	-.0171	-.0214	-.0257	-.0300	-.0343
	.9	0	.0004	.0008	.0012	.0016	.0020	.0024	.0028	.0032	.0036	.0040	.0020	.0000	-.0020	-.0040	-.0060	-.0080	-.0100	-.0121	-.0141	-.0161
SPAN 4	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0027	-.0031	-.0015	.0000	.0015	.0031	.0046	.0061	.0076	.0092	.0107	.0122
	.2	0	-.0005	-.0010	-.0015	-.0021	-.0026	-.0031	-.0036	-.0041	-.0046	-.0051	-.0026	.0000	.0026	.0051	.0077	.0103	.0129	.0154	.0180	.0206
	.3	0	-.0006	-.0013	-.0019	-.0026	-.0032	-.0038	-.0045	-.0051	-.0057	-.0064	-.0032	.0000	.0032	.0064	.0096	.0128	.0159	.0191	.0223	.0255
	.4	0	-.0007	-.0014	-.0021	-.0027	-.0034	-.0041	-.0048	-.0055	-.0062	-.0069	-.0034	.0000	.0034	.0069	.0103	.0137	.0171	.0206	.0240	.0274
	.5	0	-.0007	-.0013	-.0020	-.0027	-.0033	-.0040	-.0047	-.0054	-.0060	-.0067	-.0033	.0000	.0033	.0067	.0100	.0134	.0167	.0201	.0234	.0268
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0048	-.0054	-.0060	-.0030	.0000	.0030	.0060	.0090	.0120	.0150	.0180	.0210	.0240
	.7	0	-.0005	-.0010	-.0015	-.0020	-.0024	-.0029	-.0034	-.0039	-.0044	-.0049	-.0024	.0000	.0024	.0049	.0073	.0098	.0122	.0146	.0171	.0195
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0021	-.0024	-.0027	-.0031	-.0034	-.0017	.0000	.0017	.0034	.0051	.0069	.0086	.0103	.0120	.0137
	.9	0	-.0002	-.0004	-.0005	-.0007	-.0009	-.0011	-.0012	-.0014	-.0016	-.0018	-.0009	.0000	.0009	.0018	.0027	.0035	.0044	.0053	.0062	.0071
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0396	.0693	.0889	.0986	.0982	.0878	.0675	.0374	.0174	.0134	.0135	.0300	.0568	.0736	.0804	.0771	.0639	.0417	.0311	.0357
– Area		0	-.0053	-.0107	-.0161	-.0214	-.0268	-.0321	-.0375	-.0431	-.0688	-.1205	-.0721	-.0500	-.0482	-.0464	-.0447	-.0428	-.0411	-.0403	-.0611	-.1071
Total Area		0	.0343	.0586	.0728	.0772	.0714	.0557	.0300	-.0057	-.0514	-.1071	-.0586	-.0200	.0086	.0272	.0357	.0343	.0228	.0014	-.0300	-.0714

TABLE A4.0



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8735	.1601	-.0424	.0106	-.0018	.8735	-.1265	.0336	.0336	-.0088	-.0088	.0018	.0018
	.2	.7486	.3166	-.0823	.0206	-.0034	.7486	-.2514	.0651	.0651	-.0171	-.0171	.0034	.0034
	.3	.6269	.4658	-.1170	.0292	-.0049	.6269	-.3731	.0926	.0926	-.0244	-.0244	.0049	.0049
	.4	.5100	.6040	-.1440	.0360	-.0060	.5100	-.4900	.1140	.1140	-.0300	-.0300	.0060	.0060
	.5	.3996	.7277	-.1607	.0402	-.0067	.3996	-.6004	.1272	.1272	-.0335	-.0335	.0067	.0067
	.6	.2971	.8331	-.1646	.0411	-.0069	.2971	-.7029	.1303	.1303	-.0343	-.0343	.0069	.0069
	.7	.2044	.9168	-.1530	.0383	-.0064	.2044	-.7956	.1211	.1211	-.0319	-.0319	.0064	.0064
	.8	.1229	.9749	-.1234	.0309	-.0051	.1229	-.8771	.0977	.0977	-.0257	-.0257	.0051	.0051
	.9	.0542	1.0038	-.0733	.0183	-.0031	.0542	-.9458	.0580	.0580	-.0153	-.0153	.0031	.0031
SPAN 2	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
	.1	-.0387	.9614	.0974	-.0241	.0040	-.0387	-.0387	.9227	-.0773	.0201	.0201	-.0040	-.0040
	.2	-.0634	.8926	.2137	-.0514	.0086	-.0634	-.0634	.8291	-.1709	.0429	.0429	-.0086	-.0086
	.3	-.0761	.7998	.3420	-.0788	.0131	-.0761	-.0761	.7236	-.2764	.0656	.0656	-.0131	-.0131
	.4	-.0789	.6891	.4754	-.1029	.0171	-.0789	-.0789	.6103	-.3897	.0857	.0857	-.0171	-.0171
	.5	-.0737	.5670	.6071	-.1205	.0201	-.0737	-.0737	.4933	-.5067	.1004	.1004	-.0201	-.0201
	.6	-.0626	.4394	.7303	-.1286	.0214	-.0626	-.0626	.3769	-.6231	.1071	.1071	-.0214	-.0214
	.7	-.0476	.3128	.8380	-.1238	.0206	-.0476	-.0476	.2651	-.7349	.1031	.1031	-.0206	-.0206
	.8	-.0309	.1931	.9234	-.1029	.0171	-.0309	-.0309	.1623	-.8377	.0857	.0857	-.0171	-.0171
	.9	-.0143	.0868	.9797	-.0627	.0104	-.0143	-.0143	.0725	-.9275	.0522	.0522	-.0104	-.0104
SPAN 3	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
	.1	.0104	-.0627	.9797	.0868	-.0143	.0104	.0104	-.0522	-.0522	.9275	-.0725	.0143	.0143
	.2	.0171	-.1029	.9234	.1931	-.0309	.0171	.0171	-.0857	-.0857	.8377	-.1623	.0309	.0309
	.3	.0206	-.1238	.8380	.3128	-.0476	.0206	.0206	-.1031	-.1031	.7349	-.2651	.0476	.0476
	.4	.0214	-.1286	.7303	.4394	-.0626	.0214	.0214	-.1071	-.1071	.6231	-.3769	.0626	.0626
	.5	.0201	-.1205	.6071	.5670	-.0737	.0201	.0201	-.1004	-.1004	.5067	-.4933	.0737	.0737
	.6	.0171	-.1029	.4754	.6891	-.0789	.0171	.0171	-.0857	-.0857	.3897	-.6103	.0789	.0789
	.7	.0131	-.0788	.3420	.7998	-.0761	.0131	.0131	-.0656	-.0656	.2764	-.7236	.0761	.0761
	.8	.0086	-.0514	.2137	.8926	-.0634	.0086	.0086	-.0429	-.0429	.1709	-.8291	.0634	.0634
	.9	.0040	-.0241	.0974	.9614	-.0387	.0040	.0040	-.0201	-.0201	.0773	-.9227	.0387	.0387
SPAN 4	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
	.1	-.0031	.0183	-.0733	1.0038	.0542	-.0031	-.0031	.0153	.0153	-.0580	-.0580	.9458	-.0542
	.2	-.0051	.0309	-.1234	.9749	.1229	-.0051	-.0051	.0257	.0257	-.0977	-.0977	.8771	-.1229
	.3	-.0064	.0383	-.1530	.9168	.2044	-.0064	-.0064	.0319	.0319	-.1211	-.1211	.7956	-.2044
	.4	-.0069	.0411	-.1646	.8331	.2971	-.0069	-.0069	.0343	.0343	-.1303	-.1303	.7029	-.2971
	.5	-.0067	.0402	-.1607	.7277	.3996	-.0067	-.0067	.0335	.0335	-.1272	-.1272	.6004	-.3996
	.6	-.0060	.0360	-.1440	.6040	.5100	-.0060	-.0060	.0300	.0300	-.1140	-.1140	.4900	-.5100
	.7	-.0049	.0292	-.1170	.4658	.6269	-.0049	-.0049	.0244	.0244	-.0926	-.0926	.3731	-.6269
	.8	-.0034	.0206	-.0823	.3166	.7486	-.0034	-.0034	.0171	.0171	-.0651	-.0651	.2514	-.7486
	.9	-.0018	.0106	-.0424	.1601	.8735	-.0018	-.0018	.0088	.0088	-.0336	-.0336	.1265	-.8735
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4464	1.2232	1.1429	1.2232	.4464	.4464	.0134	.6027	.1071	.5714	.0670	.6205	.0536
- Area		-.0536	-.0804	-.2143	-.0804	-.0536	-.0536	-.6205	-.0670	-.5714	-.1071	-.6027	-.0134	-.4464
Total Area		.3928	1.1428	.9286	1.1428	.3928	.3928	-.6071	.5357	-.4643	.4643	-.5357	.6071	-.3928

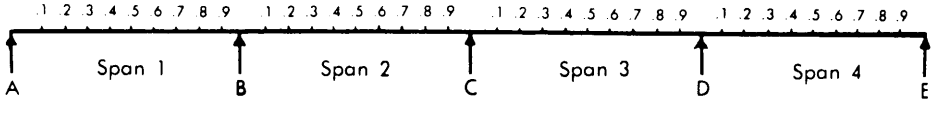
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.0

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0875	.0749	.0624	.0499	.0373	.0248	.0123	-.0003	-.0128	-.0253	-.0221	-.0189	-.0157	-.0125	-.0093	-.0061	-.0029	.0004	.0036	.0068
	.2	0	.0751	.1502	.1253	.1003	.0754	.0505	.0256	.0007	-.0242	-.0492	-.0429	-.0367	-.0305	-.0242	-.0180	-.0118	-.0055	.0007	.0069	.0132
	.3	0	.0630	.1260	.1890	.1520	.1151	.0781	.0411	.0041	-.0329	-.0699	-.0610	-.0522	-.0433	-.0345	-.0256	-.0167	-.0079	.0010	.0098	.0187
	.4	0	.0514	.1028	.1542	.2056	.1570	.1084	.0598	.0112	-.0374	-.0860	-.0751	-.0642	-.0533	-.0424	-.0315	-.0206	-.0097	.0012	.0121	.0230
	.5	0	.0404	.0808	.1212	.1616	.2020	.1424	.0828	.0232	-.0364	-.0960	-.0838	-.0717	-.0595	-.0473	-.0352	-.0230	-.0108	.0013	.0135	.0257
	.6	0	.0302	.0603	.0905	.1207	.1508	.1810	.1112	.0413	-.0285	-.0983	-.0859	-.0734	-.0609	-.0485	-.0360	-.0235	-.0111	.0014	.0138	.0263
	.7	0	.0209	.0417	.0626	.0834	.1043	.1252	.1460	.0669	-.0123	-.0914	-.0798	-.0682	-.0566	-.0451	-.0335	-.0219	-.0103	.0013	.0129	.0245
	.8	0	.0126	.0253	.0379	.0505	.0631	.0758	.0884	.1010	.0136	-.0737	-.0644	-.0550	-.0457	-.0364	-.0270	-.0177	.0083	-.0010	.0104	.0197
	.9	0	.0056	.0112	.0169	.0225	.0281	.0337	.0394	.0450	.0506	-.0438	-.0382	-.0327	-.0271	-.0216	-.0160	-.0105	-.0049	.0006	.0062	.0117
SPAN 2	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0045	-.0090	-.0134	-.0179	-.0224	-.0269	-.0313	-.0358	-.0403	-.0448	.0570	.0488	.0405	.0323	.0240	.0158	.0076	-.0007	-.0089	-.0172
	.2	0	-.0073	-.0147	-.0220	-.0293	-.0367	-.0440	-.0513	-.0586	-.0660	-.0733	.0183	.1100	.0916	.0733	.0549	.0365	.0182	-.0002	-.0185	-.0369
	.3	0	-.0088	-.0176	-.0264	-.0352	-.0440	-.0528	-.0616	-.0704	-.0792	-.0880	-.0079	.0723	.1524	.1225	.0926	.0627	.0328	.0030	-.0269	-.0568
	.4	0	-.0091	-.0182	-.0273	-.0364	-.0456	-.0547	-.0638	-.0729	-.0820	-.0911	-.0235	.0442	.1119	.1795	.1372	.0949	.0525	.0102	-.0322	-.0745
	.5	0	-.0085	-.0170	-.0255	-.0340	-.0425	-.0511	-.0596	-.0681	-.0766	-.0851	-.0303	.0244	.0792	.1339	.1887	.1334	.0782	.0229	-.0323	-.0876
	.6	0	-.0072	-.0145	-.0217	-.0289	-.0361	-.0434	-.0506	-.0578	-.0650	-.0723	-.0304	.0115	.0533	.0952	.1370	.1789	.1108	.0426	-.0255	-.0937
	.7	0	-.0055	-.0110	-.0165	-.0220	-.0275	-.0330	-.0385	-.0440	-.0495	-.0550	-.0255	.0334	.0334	.0629	.0923	.1218	.1513	.0707	-.0098	-.0903
	.8	0	-.0036	-.0071	-.0107	-.0142	-.0178	-.0214	-.0249	-.0285	-.0321	-.0356	-.0176	.0005	.0185	.0365	.0546	.0726	.0907	.1087	.0167	-.0752
	.9	0	-.0016	-.0033	-.0049	-.0066	-.0082	-.0099	-.0115	-.0132	-.0148	-.0165	-.0084	-.0004	.0077	.0157	.0238	.0319	.0399	.0480	.0560	-.0459
SPAN 3	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0012	.0024	.0036	.0048	.0060	.0072	.0084	.0096	.0108	.0120	.0062	.0004	-.0054	-.0111	-.0169	-.0227	-.0285	-.0343	-.0401	-.0459
	.2	0	.0020	.0039	.0059	.0079	.0099	.0118	.0138	.0158	.0177	.0197	.0102	.0007	-.0088	-.0183	-.0278	-.0373	-.0467	-.0562	-.0657	-.0752
	.3	0	.0024	.0047	.0071	.0095	.0118	.0142	.0166	.0189	.0213	.0237	.0123	.0009	-.0105	-.0219	-.0333	-.0447	-.0561	-.0675	-.0789	-.0903
	.4	0	.0025	.0049	.0074	.0098	.0123	.0147	.0172	.0196	.0221	.0245	.0127	.0009	-.0109	-.0227	-.0346	-.0464	-.0582	-.0700	-.0818	-.0937
	.5	0	.0023	.0046	.0069	.0092	.0115	.0138	.0161	.0184	.0206	.0229	.0119	.0008	-.0102	-.0213	-.0323	-.0434	-.0544	-.0655	-.0765	-.0876
	.6	0	.0020	.0039	.0059	.0078	.0098	.0117	.0137	.0156	.0176	.0195	.0101	.0007	-.0087	-.0181	-.0275	-.0369	-.0463	-.0557	-.0651	-.0745
	.7	0	.0015	.0030	.0045	.0060	.0074	.0089	.0104	.0119	.0134	.0149	.0077	.0005	-.0066	-.0138	-.0210	-.0281	-.0353	-.0425	-.0496	-.0568
	.8	0	.0010	.0019	.0029	.0039	.0048	.0058	.0068	.0077	.0087	.0097	.0050	.0004	-.0043	-.0090	-.0136	-.0183	-.0229	-.0276	-.0322	-.0369
	.9	0	.0004	.0009	.0013	.0018	.0022	.0027	.0031	.0036	.0040	.0045	.0023	.0002	-.0020	-.0042	-.0063	-.0085	-.0107	-.0128	-.0150	-.0172
SPAN 4	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0025	-.0028	-.0031	-.0016	-.0001	.0014	.0028	.0043	.0058	.0073	.0088	.0102	.0117
	.2	0	-.0005	-.0010	-.0015	-.0021	-.0026	-.0031	-.0036	-.0041	-.0046	-.0052	-.0027	-.0002	.0023	.0048	.0073	.0098	.0123	.0147	.0172	.0197
	.3	0	-.0006	-.0013	-.0019	-.0026	-.0032	-.0038	-.0045	-.0051	-.0058	-.0064	-.0033	-.0002	.0029	.0059	.0090	.0121	.0152	.0183	.0214	.0245
	.4	0	-.0007	-.0014	-.0021	-.0028	-.0034	-.0041	-.0048	-.0055	-.0062	-.0069	-.0036	-.0002	.0031	.0064	.0097	.0130	.0163	.0197	.0230	.0263
	.5	0	-.0007	-.0013	-.0020	-.0027	-.0034	-.0040	-.0047	-.0054	-.0061	-.0067	-.0035	-.0002	.0030	.0062	.0095	.0127	.0160	.0192	.0224	.0257
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0048	-.0054	-.0060	-.0031	-.0002	.0027	.0056	.0085	.0114	.0143	.0172	.0201	.0230
	.7	0	-.0005	-.0010	-.0015	-.0020	-.0024	-.0029	-.0034	-.0039	-.0044	-.0049	-.0025	-.0002	.0022	.0045	.0069	.0093	.0116	.0140	.0163	.0187
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0021	-.0024	-.0028	-.0031	-.0034	-.0018	-.0001	.0015	.0032	.0049	.0065	.0082	.0098	.0115	.0132
	.9	0	-.0002	-.0004	-.0005	-.0007	-.0009	-.0011	-.0012	-.0014	-.0016	-.0018	-.0009	-.0001	.0008	.0016	.0025	.0034	.0042	.0051	.0059	.0068
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0403	.0706	.0908	.1011	.1014	.0917	.0720	.0423	.0210	.0168	.0164	.0347	.0661	.0862	.0942	.0902	.0740	.0467	.0313	.0343
- Area		0	-.0067	-.0134	-.0200	-.0267	-.0334	-.0401	-.0468	-.0535	-.0787	-.1309	-.0740	-.0480	-.0472	-.0471	-.0471	-.0471	-.0471	-.0481	-.0730	-.1285
Total Area		0	.0336	.0572	.0708	.0744	.0680	.0516	.0252	-.0112	-.0577	-.1141	-.0576	-.0133	.0189	.0391	.0471	.0431	.0269	-.0014	-.0417	-.0942

TABLE A4.1



	Unit load at	REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8747	.1546	-.0370	.0096	-.0018	.8747	-.1253	.0292	.0292	-.0078	-.0078	.0018	.0018
	.2	.7508	.3058	-.0717	.0185	-.0034	.7508	-.2492	.0566	.0566	-.0151	-.0151	.0034	.0034
	.3	.6301	.4504	-.1020	.0264	-.0049	.6301	-.3699	.0805	.0805	-.0215	-.0215	.0049	.0049
	.4	.5140	.5852	-.1255	.0324	-.0060	.5140	-.4860	.0991	.0991	-.0264	-.0264	.0060	.0060
	.5	.4040	.7066	-.1401	.0362	-.0067	.4040	-.5960	.1106	.1106	-.0295	-.0295	.0067	.0067
	.6	.3017	.8116	-.1435	.0371	-.0069	.3017	-.6983	.1133	.1133	-.0302	-.0302	.0069	.0069
	.7	.2086	.8967	-.1334	.0345	-.0064	.2086	-.7914	.1053	.1053	-.0281	-.0281	.0064	.0064
	.8	.1263	.9587	-.1076	.0278	-.0052	.1263	-.8737	.0850	.0850	-.0226	-.0226	.0052	.0052
	.9	.0562	.9942	-.0639	.0165	-.0031	.0562	-.9438	.0505	.0505	-.0134	-.0134	.0031	.0031
SPAN 2	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
	.1	-.0448	.9699	.0946	-.0242	.0045	-.0448	-.0448	.9251	-.0749	.0197	.0197	-.0045	-.0045
	.2	-.0733	.9064	.2092	-.0520	.0097	-.0733	-.0733	.8331	-.1669	.0423	.0423	-.0097	-.0097
	.3	-.0880	.8163	.3368	-.0800	.0149	-.0880	-.0880	.7283	-.2717	.0652	.0652	-.0149	-.0149
	.4	-.0911	.7062	.4704	-.1050	.0195	-.0911	-.0911	.6151	-.3849	.0855	.0855	-.0195	-.0195
	.5	-.0851	.5828	.6027	-.1234	.0229	-.0851	-.0851	.4977	-.5023	.1005	.1005	-.0229	-.0229
	.6	-.0723	.4528	.7269	-.1320	.0245	-.0723	-.0723	.3806	-.6195	.1075	.1075	-.0245	-.0245
	.7	-.0550	.3228	.8358	-.1273	.0237	-.0550	-.0550	.2679	-.7321	.1036	.1036	-.0237	-.0237
	.8	-.0356	.1996	.9223	-.1060	.0197	-.0356	-.0356	.1640	-.8360	.0863	.0863	-.0197	-.0197
	.9	-.0165	.0898	.9794	-.0647	.0120	-.0165	-.0165	.0733	-.9267	.0527	.0527	-.0120	-.0120
SPAN 3	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
	.1	.0120	-.0647	.9794	.0898	-.0165	.0120	.0120	-.0527	-.0527	.9267	-.0733	.0165	.0165
	.2	.0197	-.1060	.9223	.1996	-.0356	.0197	.0197	-.0863	-.0863	.8360	-.1640	.0356	.0356
	.3	.0237	-.1273	.8358	.3228	-.0550	.0237	.0237	-.1036	-.1036	.7321	-.2679	.0550	.0550
	.4	.0245	-.1320	.7269	.4528	-.0723	.0245	.0245	-.1075	-.1075	.6195	-.3806	.0723	.0723
	.5	.0229	-.1234	.6027	.5828	-.0851	.0229	.0229	-.1005	-.1005	.5023	-.4977	.0851	.0851
	.6	.0195	-.1050	.4704	.7062	-.0911	.0195	.0195	-.0855	-.0855	.3849	-.6151	.0911	.0911
	.7	.0149	-.0800	.3368	.8163	-.0880	.0149	.0149	-.0652	-.0652	.2717	-.7283	.0880	.0880
	.8	.0097	-.0520	.2092	.9064	-.0733	.0097	.0097	-.0423	-.0423	.1669	-.8331	.0733	.0733
	.9	.0045	-.0242	.0946	.9699	-.0448	.0045	.0045	-.0197	-.0197	.0749	-.9251	.0448	.0448
SPAN 4	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
	.1	-.0031	.0165	-.0639	.9942	.0562	-.0031	-.0031	.0134	.0134	-.0505	-.0505	.9438	-.0562
	.2	-.0052	.0278	-.1076	.9587	.1263	-.0052	-.0052	.0226	.0226	-.0850	-.0850	.8737	-.1263
	.3	-.0064	.0345	-.1334	.8967	.2086	-.0064	-.0064	.0281	.0281	-.1053	-.1053	.7914	-.2086
	.4	-.0069	.0371	-.1435	.8116	.3017	-.0069	-.0069	.0302	.0302	-.1133	-.1133	.6983	-.3017
	.5	-.0067	.0362	-.1401	.7066	.4040	-.0067	-.0067	.0295	.0295	-.1106	-.1106	.5960	-.4040
	.6	-.0060	.0324	-.1255	.5852	.5140	-.0060	-.0060	.0264	.0264	-.0991	-.0991	.4860	-.5140
	.7	-.0049	.0264	-.1020	.4504	.6301	-.0049	-.0049	.0215	.0215	-.0805	-.0805	.3699	-.6301
	.8	-.0034	.0185	-.0717	.3058	.7508	-.0034	-.0034	.0151	.0151	-.0566	-.0566	.2492	-.7508
	.9	-.0018	.0096	-.0370	.1546	.8747	-.0018	-.0018	.0078	.0078	-.0292	-.0292	.1253	-.8747
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4528	1.2726	1.2507	1.2726	.4528	.4528	.0168	.6417	.0934	.6253	.0737	.6309	.0669
- Area		-.0669	-.0905	-.1868	-.0905	-.0669	-.0669	-.6309	-.0737	-.6253	-.0934	-.6417	-.0168	-.4528
Total Area		.3859	1.1821	1.0639	1.1821	.3859	.3859	-.6141	.5680	-.5319	-.5319	-.5680	.6141	-.3859

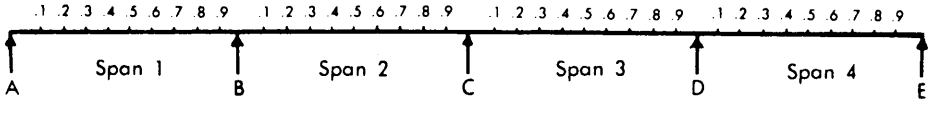
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.1

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0876	.0751	.0627	.0503	.0379	.0254	.0130	.0006	-.0119	-.0243	-.0212	-.0181	-.0150	-.0120	-.0089	-.0058	-.0027	.0004	.0034	.0065
	.2	0	.0753	.1506	.1259	.1012	.0765	.0518	.0270	.0023	-.0224	-.0471	-.0411	-.0351	-.0292	-.0232	-.0172	-.0113	-.0053	.0007	.0067	.0126
	.3	0	.0633	.1266	.1899	.1532	.1165	.0798	.0431	.0064	-.0303	-.0669	-.0585	-.0500	-.0415	-.0330	-.0245	-.0160	-.0075	.0010	.0095	.0180
	.4	0	.0518	.1035	.1553	.2070	.1588	.1106	.0623	.0141	-.0342	-.0824	-.0719	-.0615	-.0510	-.0406	-.0301	-.0197	-.0092	.0012	.0117	.0221
	.5	0	.0408	.0816	.1224	.1632	.2040	.1448	.0856	.0264	-.0328	-.0920	-.0803	-.0686	-.0570	-.0453	-.0336	-.0220	-.0103	.0013	.0130	.0247
	.6	0	.0306	.0612	.0918	.1223	.1529	.1835	.1141	.0447	-.0247	-.0942	-.0822	-.0703	-.0583	-.0464	-.0345	-.0225	-.0106	.0014	.0133	.0253
	.7	0	.0212	.0425	.0637	.0850	.1062	.1275	.1487	.0700	-.0088	-.0875	-.0764	-.0653	-.0542	-.0431	-.0320	-.0209	-.0098	.0013	.0124	.0235
	.8	0	.0129	.0259	.0388	.0518	.0647	.0776	.0906	.1035	.0164	-.0706	-.0617	-.0527	-.0438	-.0348	-.0258	-.0169	-.0079	.0010	.0100	.0189
	.9	0	.0058	.0116	.0174	.0232	.0290	.0348	.0406	.0465	.0523	-.0419	-.0366	-.0313	-.0260	-.0207	-.0153	-.0100	-.0047	.0006	.0059	.0112
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0051	-.0102	-.0153	-.0204	-.0255	-.0306	-.0357	-.0408	-.0459	-.0510	.0603	.0516	.0428	.0341	.0254	.0167	.0080	-.0008	-.0095	-.0182
	.2	0	-.0084	-.0167	-.0251	-.0334	-.0418	-.0501	-.0585	-.0668	-.0752	-.0835	.0169	.1173	.0977	.0781	.0585	.0390	.0194	-.0002	-.0198	-.0394
	.3	0	-.0100	-.0200	-.0301	-.0401	-.0501	-.0601	-.0701	-.0802	-.0902	-.1002	-.0123	.0756	.1636	.1315	.0994	.0673	.0352	.0032	-.0289	-.0610
	.4	0	-.0104	-.0208	-.0311	-.0415	-.0519	-.0623	-.0726	-.0830	-.0934	-.1038	-.0294	.0449	.1193	.1936	.1480	.1023	.0566	.0110	-.0347	-.0803
	.5	0	-.0097	-.0194	-.0291	-.0388	-.0484	-.0581	-.0678	-.0775	-.0872	-.0969	-.0367	.0235	.0838	.1440	.2042	.1444	.0846	.0248	-.0350	-.0947
	.6	0	-.0082	-.0165	-.0247	-.0329	-.0411	-.0494	-.0576	-.0658	-.0740	-.0823	-.0362	.0099	.0559	.1020	.1481	.1942	.1202	.0463	-.0276	-.1016
	.7	0	-.0063	-.0125	-.0188	-.0250	-.0313	-.0375	-.0438	-.0501	-.0563	-.0626	-.0301	.0023	.0348	.0672	.0996	.1321	.1645	.0770	-.0106	-.0981
	.8	0	-.0041	-.0081	-.0122	-.0162	-.0203	-.0243	-.0284	-.0324	-.0365	-.0405	-.0206	-.0008	.0191	.0390	.0588	.0787	.0985	.1184	.0183	-.0819
	.9	0	-.0019	-.0038	-.0056	-.0075	-.0094	-.0113	-.0131	-.0150	-.0169	-.0188	-.0099	-.0010	.0079	.0167	.0256	.0345	.0434	.0522	.0611	-.0500
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0014	.0027	.0041	.0055	.0068	.0082	.0095	.0109	.0123	.0136	.0073	.0009	-.0055	-.0118	-.0182	-.0246	-.0309	-.0373	-.0437	-.0500
	.2	0	.0022	.0045	.0067	.0089	.0112	.0134	.0156	.0179	.0201	.0223	.0119	.0015	-.0089	-.0193	-.0298	-.0402	-.0506	-.0610	-.0714	-.0819
	.3	0	.0027	.0054	.0080	.0107	.0134	.0161	.0187	.0214	.0241	.0268	.0143	.0018	-.0107	-.0232	-.0357	-.0482	-.0607	-.0732	-.0857	-.0981
	.4	0	.0028	.0055	.0083	.0111	.0138	.0166	.0194	.0222	.0249	.0277	.0148	.0018	-.0111	-.0240	-.0369	-.0499	-.0628	-.0757	-.0886	-.1016
	.5	0	.0026	.0052	.0078	.0103	.0129	.0155	.0181	.0207	.0233	.0258	.0138	.0017	-.0103	-.0224	-.0345	-.0465	-.0586	-.0706	-.0827	-.0947
	.6	0	.0022	.0044	.0066	.0088	.0110	.0131	.0153	.0175	.0197	.0219	.0117	.0015	-.0088	-.0190	-.0292	-.0394	-.0497	-.0599	-.0701	-.0803
	.7	0	.0017	.0033	.0050	.0067	.0083	.0100	.0116	.0133	.0150	.0166	.0089	.0011	-.0067	-.0144	-.0222	-.0300	-.0377	-.0455	-.0532	-.0610
	.8	0	.0011	.0021	.0032	.0043	.0054	.0064	.0075	.0086	.0097	.0107	.0057	.0007	-.0043	-.0093	-.0143	-.0193	-.0244	-.0294	-.0344	-.0394
	.9	0	.0005	.0010	.0015	.0020	.0025	.0030	.0035	.0040	.0045	.0050	.0026	.0003	-.0020	-.0043	-.0066	-.0089	-.0112	-.0136	-.0159	-.0182
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 4	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0025	-.0028	-.0031	-.0016	-.0002	.0012	.0027	.0041	.0055	.0070	.0084	.0098	.0112
	.2	0	-.0005	-.0010	-.0016	-.0021	-.0026	-.0031	-.0036	-.0041	-.0047	-.0052	-.0028	-.0003	.0021	.0045	.0069	.0093	.0117	.0141	.0165	.0189
	.3	0	-.0006	-.0013	-.0019	-.0026	-.0032	-.0038	-.0045	-.0051	-.0058	-.0064	-.0034	-.0004	.0026	.0056	.0085	.0115	.0145	.0175	.0205	.0235
	.4	0	-.0007	-.0014	-.0021	-.0028	-.0034	-.0041	-.0048	-.0055	-.0062	-.0069	-.0037	-.0005	.0028	.0060	.0092	.0124	.0156	.0188	.0220	.0253
	.5	0	-.0007	-.0013	-.0020	-.0027	-.0034	-.0040	-.0047	-.0054	-.0061	-.0067	-.0036	-.0004	.0027	.0058	.0090	.0121	.0153	.0184	.0215	.0247
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0048	-.0054	-.0060	-.0032	-.0004	.0024	.0052	.0080	.0109	.0137	.0165	.0193	.0221
	.7	0	-.0005	-.0010	-.0015	-.0020	-.0024	-.0029	-.0034	-.0039	-.0044	-.0049	-.0026	-.0003	.0020	.0042	.0065	.0088	.0111	.0134	.0157	.0180
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0021	-.0024	-.0028	-.0031	-.0034	-.0018	-.0002	.0014	.0030	.0046	.0062	.0078	.0094	.0110	.0126
	.9	0	-.0002	-.0004	-.0005	-.0007	-.0009	-.0011	-.0012	-.0014	-.0016	-.0018	-.0009	-.0001	.0007	.0015	.0024	.0032	.0040	.0049	.0057	.0065
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0409	.0719	.0928	.1037	.1047	.0956	.0766	.0475	.0249	.0207	.0195	.0396	.0760	.0999	.1093	.1044	.0850	.0523	.0317	.0329
- Area		0	-.0082	-.0164	-.0246	-.0328	-.0410	-.0492	-.0574	-.0656	-.0903	-.1433	-.0769	-.0463	-.0462	-.0481	-.0500	-.0519	-.0537	-.0566	-.0860	-.1516
Total Area		0	.0327	.0555	.0682	.0709	.0637	.0464	.0192	-.0181	-.0654	-.1226	-.0574	-.0067	.0298	.0518	.0593	.0525	.0313	-.0043	-.0543	-.1187

TABLE A4.2



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8757	.1499	-.0326	.0087	-.0018	.8757	-.1243	.0257	.0257	-.0069	-.0069	.0018	.0018
	.2	.7529	.2968	-.0632	.0169	-.0034	.7529	-.2471	.0498	.0498	-.0134	-.0134	.0034	.0034
	.3	.6331	.4377	-.0898	.0239	-.0049	.6331	-.3669	.0708	.0708	-.0190	-.0190	.0049	.0049
	.4	.5176	.5695	-.1105	.0295	-.0060	.5176	-.4824	.0871	.0871	-.0234	-.0234	.0060	.0060
	.5	.4080	.6891	-.1234	.0329	-.0067	.4080	-.5920	.0972	.0972	-.0262	-.0262	.0067	.0067
	.6	.3058	.7937	-.1263	.0337	-.0069	.3058	-.6942	.0995	.0995	-.0268	-.0268	.0069	.0069
	.7	.2125	.8801	-.1174	.0313	-.0064	.2125	-.7875	.0925	.0925	-.0249	-.0249	.0064	.0064
	.8	.1294	.9453	-.0947	.0253	-.0052	.1294	-.8706	.0746	.0746	-.0201	-.0201	.0052	.0052
	.9	.0581	.9863	-.0563	.0150	-.0031	.0581	-.9419	.0443	.0443	-.0119	-.0119	.0031	.0031
	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
SPAN 2	.1	-.0510	.9783	.0919	-.0242	.0050	-.0510	-.0510	.9273	-.0727	.0193	.0193	-.0050	-.0050
	.2	-.0835	.9202	.2051	-.0525	.0107	-.0835	-.0835	.8367	-.1633	.0418	.0418	-.0107	-.0107
	.3	-.1002	.8329	.3320	-.0813	.0166	-.1002	-.1002	.7327	-.2673	.0647	.0647	-.0166	-.0166
	.4	-.1038	.7233	.4657	-.1071	.0219	-.1038	-.1038	.6195	-.3805	.0852	.0852	-.0219	-.0219
	.5	-.0969	.5987	.5987	-.1263	.0258	-.0969	-.0969	.5018	-.4982	.1005	.1005	-.0258	-.0258
	.6	-.0823	.4662	.7238	-.1354	.0277	-.0823	-.0823	.3839	-.6161	.1077	.1077	-.0277	-.0277
	.7	-.0626	.3329	.8337	-.1309	.0268	-.0626	-.0626	.2704	-.7296	.1041	.1041	-.0268	-.0268
	.8	-.0405	.2061	.9213	-.1091	.0223	-.0405	-.0405	.1656	-.8344	.0868	.0868	-.0223	-.0223
	.9	-.0188	.0927	.9791	-.0667	.0136	-.0188	-.0188	.0739	-.9261	.0531	.0531	-.0136	-.0136
	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 3	.1	.0136	-.0667	.9791	.0927	-.0188	.0136	.0136	-.0531	-.0531	.9261	-.0739	.0188	.0188
	.2	.0223	-.1091	.9213	.2061	-.0405	.0223	.0223	-.0868	-.0868	.8344	-.1656	.0405	.0405
	.3	.0268	-.1309	.8337	.3329	-.0626	.0268	.0268	-.1041	-.1041	.7296	-.2704	.0626	.0626
	.4	.0277	-.1354	.7238	.4662	-.0823	.0277	.0277	-.1077	-.1077	.6161	-.3839	.0823	.0823
	.5	.0258	-.1263	.5987	.5987	-.0969	.0258	.0258	-.1005	-.1005	.4982	-.5018	.0969	.0969
	.6	.0219	-.1071	.4657	.7233	-.1038	.0219	.0219	-.0852	-.0852	.3805	-.6195	.1038	.1038
	.7	.0166	-.0813	.3320	.8329	-.1002	.0166	.0166	-.0647	-.0647	.2673	-.7327	.1002	.1002
	.8	.0107	-.0525	.2051	.9202	-.0835	.0107	.0107	-.0418	-.0418	.1633	-.8367	.0835	.0835
	.9	.0050	-.0242	.0919	.9783	-.0510	.0050	.0050	-.0193	-.0193	.0727	-.9273	.0510	.0510
	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 4	.1	-.0031	.0150	-.0563	.9863	.0581	-.0031	-.0031	.0119	.0119	-.0443	-.0443	.9419	-.0581
	.2	-.0052	.0253	-.0947	.9453	.1294	-.0052	-.0052	.0201	.0201	-.0746	-.0746	.8706	-.1294
	.3	-.0064	.0313	-.1174	.8801	.2125	-.0064	-.0064	.0249	.0249	-.0925	-.0925	.7875	-.2125
	.4	-.0069	.0337	-.1263	.7937	.3058	-.0069	-.0069	.0268	.0268	-.0995	-.0995	.6942	-.3058
	.5	-.0067	.0329	-.1234	.6891	.4080	-.0067	-.0067	.0262	.0262	-.0972	-.0972	.5920	-.4080
	.6	-.0060	.0295	-.1105	.5695	.5176	-.0060	-.0060	.0234	.0234	-.0871	-.0871	.4824	-.5176
	.7	-.0049	.0239	-.0898	.4377	.6631	-.0049	-.0049	.0190	.0190	-.0708	-.0708	.3669	-.6331
	.8	-.0034	.0169	-.0632	.2968	.7529	-.0034	-.0034	.0134	.0134	-.0498	-.0498	.2471	-.7529
	.9	-.0018	.0087	-.0326	.1499	.8757	-.0018	-.0018	.0069	.0069	-.0257	-.0257	.1243	-.8757
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4594	1.3270	1.3579	1.3270	.4594	.4594	.0207	.6837	.0822	.6789	.0804	.6433	.0820
- Area		-.0820	-.1011	-.1645	-.1011	-.0820	-.0820	-.6433	-.0804	-.6789	-.0822	-.6837	-.0207	-.4594
Total Area		.3774	1.2259	1.1934	1.2259	.3774	.3774	-.6226	.6033	-.5967	.5967	-.6033	.6226	-.3774

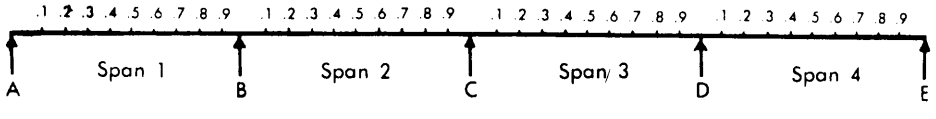
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.2

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0877	.0753	.0630	.0507	.0384	.0260	.0137	.0014	-.0110	-.0233	-.0203	-.0174	-.0144	-.0115	-.0085	-.0056	-.0026	.0004	.0033	.0063
	.2	0	.0755	.1510	.1264	.1019	.0774	.0529	.0284	.0039	-.0207	-.0452	-.0394	-.0337	-.0280	-.0222	-.0165	-.0108	-.0050	.0007	.0064	.0122
	.3	0	.0636	.1272	.1907	.1543	.1179	.0815	.0450	.0086	-.0278	-.0642	-.0561	-.0479	-.0398	-.0316	-.0235	-.0153	-.0072	.0010	.0091	.0173
	.4	0	.0521	.1042	.1563	.2084	.1605	.1126	.0647	.0168	-.0311	-.0791	-.0690	-.0590	-.0490	-.0389	-.0289	-.0189	-.0088	.0012	.0112	.0213
	.5	0	.0412	.0824	.1235	.1647	.2059	.1471	.0882	.0294	-.0294	-.0882	-.0770	-.0658	-.0546	-.0434	-.0322	-.0211	-.0099	.0013	.0125	.0237
	.6	0	.0310	.0619	.0929	.1239	.1548	.1858	.1168	.0477	-.0213	-.0903	-.0789	-.0674	-.0560	-.0445	-.0330	-.0216	-.0101	.0014	.0128	.0243
	.7	0	.0216	.0432	.0648	.0864	.1080	.1296	.1512	.0728	-.0056	-.0840	-.0733	-.0627	-.0520	-.0414	-.0307	-.0200	-.0094	.0013	.0119	.0226
	.8	0	.0132	.0264	.0397	.0529	.0661	.0793	.0926	.1058	.0190	-.0678	-.0592	-.0506	-.0420	-.0334	-.0248	-.0162	-.0076	.0010	.0096	.0182
	.9	0	.0060	.0120	.0179	.0239	.0299	.0359	.0418	.0478	.0538	-.0402	-.0351	-.0300	-.0249	-.0198	-.0147	-.0096	-.0045	.0006	.0057	.0108
SPAN 2	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0057	-.0115	-.0172	-.0230	-.0287	-.0344	-.0402	-.0459	-.0517	-.0574	.0634	.0542	.0451	.0359	.0267	.0175	.0084	-.0008	-.0100	-.0192
	.2	0	-.0094	-.0188	-.0282	-.0376	-.0470	-.0564	-.0658	-.0752	-.0846	-.0940	.0152	.1244	.1037	.0829	.0621	.0413	.0205	-.0003	-.0211	-.0419
	.3	0	-.0113	-.0225	-.0338	-.0451	-.0564	-.0676	-.0789	-.0902	-.1015	-.1127	-.0170	.0788	.1745	.1403	.1061	.0718	.0376	.0033	-.0309	-.0651
	.4	0	-.0117	-.0233	-.0350	-.0467	-.0584	-.0700	-.0817	-.0934	-.1051	-.1167	-.0357	.0454	.1264	.2075	.1586	.1096	.0607	.0118	-.0372	-.0861
	.5	0	-.0109	-.0218	-.0327	-.0436	-.0545	-.0654	-.0763	-.0872	-.0981	-.1090	-.0433	.0224	.0882	.1539	.2196	.1553	.0910	.0267	-.0375	-.1018
	.6	0	-.0093	-.0185	-.0278	-.0370	-.0463	-.0555	-.0648	-.0740	-.0833	-.0925	-.0422	.0081	.0584	.1087	.1590	.2094	.1297	.0500	-.0297	-.1094
	.7	0	-.0070	-.0141	-.0211	-.0281	-.0352	-.0422	-.0493	-.0563	-.0633	-.0704	-.0349	.0005	.0360	.0714	.1069	.1423	.1777	.0832	-.0114	-.1059
	.8	0	-.0046	-.0091	-.0137	-.0182	-.0228	-.0273	-.0319	-.0364	-.0410	-.0455	-.0238	-.0021	.0196	.0413	.0630	.0847	.1064	.1281	.0198	-.0885
	.9	0	-.0021	-.0042	-.0063	-.0084	-.0105	-.0126	-.0148	-.0169	-.0190	-.0211	-.0114	-.0017	.0080	.0177	.0274	.0371	.0468	.0565	.0662	-.0541
SPAN 3	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0015	.0031	.0046	.0061	.0076	.0092	.0107	.0122	.0138	.0153	.0084	.0014	-.0055	-.0125	-.0194	-.0264	-.0333	-.0402	-.0472	-.0541
	.2	0	.0025	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0137	.0023	-.0090	-.0204	-.0317	-.0431	-.0544	-.0658	-.0771	-.0885
	.3	0	.0030	.0060	.0090	.0120	.0150	.0180	.0210	.0239	.0269	.0299	.0163	.0228	-.0108	-.0244	-.0380	-.0516	-.0652	-.0787	-.0923	-.1059
	.4	0	.0031	.0062	.0093	.0124	.0155	.0186	.0216	.0247	.0278	.0309	.0169	.0029	-.0112	-.0252	-.0392	-.0533	-.0673	-.0813	-.0954	-.1094
	.5	0	.0029	.0058	.0086	.0115	.0144	.0173	.0201	.0230	.0259	.0288	.0157	.0027	-.0104	-.0235	-.0365	-.0496	-.0626	-.0757	-.0888	-.1018
	.6	0	.0024	.0049	.0073	.0097	.0122	.0146	.0170	.0195	.0219	.0243	.0133	.0022	-.0088	-.0198	-.0309	-.0419	-.0530	-.0640	-.0751	-.0861
	.7	0	.0018	.0037	.0055	.0074	.0092	.0110	.0129	.0147	.0166	.0184	.0101	.0017	-.0067	-.0150	-.0234	-.0317	-.0401	-.0484	-.0568	-.0651
	.8	0	.0012	.0024	.0035	.0047	.0059	.0071	.0083	.0095	.0106	.0118	.0065	.0011	-.0043	-.0096	-.0150	-.0204	-.0258	-.0311	-.0365	-.0419
	.9	0	.0005	.0011	.0016	.0022	.0027	.0033	.0038	.0043	.0049	.0054	.0030	.0005	-.0020	-.0044	-.0069	-.0093	-.0118	-.0143	-.0167	-.0192
SPAN 4	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0028	-.0031	-.0017	-.0003	.0011	.0025	.0039	.0053	.0067	.0080	.0094	.0108
	.2	0	-.0005	-.0010	-.0015	-.0021	-.0026	-.0031	-.0036	-.0041	-.0046	-.0052	-.0028	-.0005	.0019	.0042	.0065	.0089	.0112	.0136	.0159	.0182
	.3	0	-.0006	-.0013	-.0019	-.0026	-.0032	-.0038	-.0045	-.0051	-.0057	-.0064	-.0035	-.0006	.0023	.0052	.0081	.0110	.0139	.0168	.0197	.0226
	.4	0	-.0007	-.0014	-.0021	-.0027	-.0034	-.0041	-.0048	-.0055	-.0062	-.0069	-.0038	-.0006	.0025	.0056	.0087	.0118	.0150	.0181	.0212	.0243
	.5	0	-.0007	-.0013	-.0020	-.0027	-.0034	-.0040	-.0047	-.0054	-.0060	-.0067	-.0037	-.0006	.0024	.0055	.0085	.0116	.0146	.0176	.0207	.0237
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0048	-.0054	-.0060	-.0033	-.0006	.0022	.0049	.0076	.0104	.0131	.0158	.0185	.0213
	.7	0	-.0005	-.0010	-.0015	-.0020	-.0024	-.0029	-.0034	-.0039	-.0044	-.0049	-.0027	-.0005	.0018	.0040	.0062	.0084	.0106	.0128	.0151	.0173
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0021	-.0024	-.0027	-.0031	-.0034	-.0019	-.0003	.0012	.0028	.0044	.0059	.0075	.0090	.0106	.0122
	.9	0	-.0002	-.0004	-.0005	-.0007	-.0009	-.0011	-.0012	-.0014	-.0016	-.0018	-.0010	-.0002	.0006	.0014	.0022	.0031	.0039	.0047	.0055	.0063
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0416	.0732	.0948	.1065	.1081	.0997	.0813	.0529	.0293	.0249	.0229	.0448	.0865	.1145	.1256	.1198	.0971	.0585	.0324	.0316
− Area		0	-.0099	-.0198	-.0297	-.0396	-.0495	-.0594	-.0693	-.0791	-.1038	-.1577	-.0808	-.0448	-.0455	-.0493	-.0532	-.0570	-.0609	-.0657	-.1000	-.1765
Total Area		0	.0317	.0534	.0651	.0669	.0586	.0403	.0120	-.0262	-.0745	-.1328	-.0579	.0000	-.0410	.0652	.0724	.0628	.0362	-.0072	-.0676	.1449

TABLE A4.3



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8767	.1460	-.0289	.0079	-.0018	.8767	-.1233	.0227	.0227	-.0062	-.0062	.0018	.0018
	.2	.7548	.2893	-.0561	.0154	-.0034	.7548	-.2452	.0441	.0441	-.0120	-.0120	.0034	.0034
	.3	.6358	.4269	-.0797	.0219	-.0049	.6358	-.3642	.0627	.0627	-.0170	-.0170	.0049	.0049
	.4	.5209	.5562	-.0981	.0270	-.0060	.5209	-.4791	.0772	.0772	-.0210	-.0210	.0060	.0060
	.5	.4118	.6744	-.1095	.0301	-.0067	.4118	-.5882	.0861	.0861	-.0234	-.0234	.0067	.0067
	.6	.3097	.7785	-.1122	.0308	-.0069	.3097	-.6903	.0882	.0882	-.0240	-.0240	.0069	.0069
	.7	.2160	.8660	-.1043	.0287	-.0064	.2160	-.7840	.0820	.0820	-.0223	-.0223	.0064	.0064
	.8	.1322	.9339	-.0841	.0231	-.0052	.1322	-.8678	.0661	.0661	-.0180	-.0180	.0052	.0052
	.9	.0598	.9795	-.0500	.0137	-.0031	.0598	-.9402	.0393	.0393	-.0107	-.0107	.0031	.0031
	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
SPAN 2	.1	-.0574	.9868	.0895	-.0243	.0054	-.0574	-.0574	.9294	-.0706	.0189	.0189	-.0054	-.0054
	.2	-.0940	.9341	.2012	-.0531	.0118	-.0940	-.0940	.8401	-.1599	.0413	.0413	-.0118	-.0118
	.3	-.1127	.8494	.3276	-.0827	.0184	-.1127	-.1127	.7366	-.2634	.0643	.0643	-.0184	-.0184
	.4	-.1167	.7403	.4614	-.1093	.0243	-.1167	-.1167	.6236	-.3764	.0849	.0849	-.0243	-.0243
	.5	-.1090	.6145	.5949	-.1292	.0288	-.1090	-.1090	.5055	-.4945	.1005	.1005	-.0288	-.0288
	.6	-.0925	.4795	.7209	-.1389	.0309	-.0925	-.0925	.3870	-.6130	.1079	.1079	-.0309	-.0309
	.7	-.0704	.3430	.8318	-.1344	.0299	-.0704	-.0704	.2727	-.7273	.1045	.1045	-.0299	-.0299
	.8	-.0455	.2125	.9203	-.1123	.0250	-.0455	-.0455	.1670	-.8330	.0873	.0873	-.0250	-.0250
	.9	-.0211	.0956	.9788	-.0687	.0153	-.0211	-.0211	.0746	-.9254	.0534	.0534	-.0153	-.0153
	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 3	.1	.0153	-.0687	.9788	.0956	-.0211	.0153	.0153	-.0534	-.0534	.9254	-.0746	.0211	.0211
	.2	.0250	-.1123	.9203	.2125	-.0455	.0250	.0250	-.0873	-.0873	.8330	-.1670	.0455	.0455
	.3	.0299	-.1344	.8318	.3430	-.0704	.0299	.0299	-.1045	-.1045	.7273	-.2727	.0704	.0704
	.4	.0309	-.1389	.7209	.4795	-.0925	.0309	.0309	-.1079	-.1079	.6130	-.3870	.0925	.0925
	.5	.0288	-.1292	.5949	.6145	-.1090	.0288	.0288	-.1005	-.1005	.4945	-.5055	.1090	.1090
	.6	.0243	-.1093	.4614	.7403	-.1167	.0243	.0243	-.0849	-.0849	.3764	-.6236	.1167	.1167
	.7	.0184	-.0827	.3276	.8494	-.1127	.0184	.0184	-.0643	-.0643	.2634	-.7366	.1127	.1127
	.8	.0118	-.0531	.2012	.9341	-.0940	.0118	.0118	-.0413	-.0413	.1599	-.8401	.0940	.0940
	.9	.0054	-.0243	.0895	.9868	-.0574	.0054	.0054	-.0189	-.0189	.0706	-.9294	.0574	.0574
	D	0	0	0	1.0	0	00	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 4	.1	-.0031	.0137	-.0500	.9795	.0598	-.0031	-.0031	.0107	.0107	-.0393	-.0393	.9402	-.0598
	.2	-.0052	.0231	-.0841	.9339	.1322	-.0052	-.0052	.0180	.0180	-.0661	-.0661	.8678	-.1322
	.3	-.0064	.0287	-.1043	.8660	.2160	-.0064	-.0064	.0223	.0223	-.0820	-.0820	.7840	-.2160
	.4	-.0069	.0308	-.1122	.7785	.3097	-.0069	-.0069	.0240	.0240	-.0882	-.0882	.6903	-.3097
	.5	-.0067	.0301	-.1095	.6744	.4118	-.0067	-.0067	.0234	.0234	-.0861	-.0861	.5882	-.4118
	.6	-.0060	.0270	-.0981	.5562	.5209	-.0060	-.0060	.0210	.0210	-.0772	-.0772	.4791	-.5209
	.7	-.0049	.0219	-.0797	.4269	.6358	-.0049	-.0049	.0170	.0170	-.0627	-.0627	.3642	-.6358
	.8	-.0034	.0154	-.0561	.2893	.7548	-.0034	-.0034	.0120	.0120	-.0441	-.0441	.2452	-.7548
	.9	-.0018	.0079	-.0289	.1460	.8767	-.0018	-.0018	.0062	.0062	-.0227	-.0227	.1233	-.8767
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4661	1.3856	1.4646	1.3856	.4661	.4661	.0249	.7278	.0730	.7323	.0871	.6577	.0989
- Area		-.0989	-.1120	-.1461	-.1120	-.0989	-.0989	-.6577	-.0871	-.7323	-.0730	-.7278	-.0249	-.4661
Total Area		.3672	1.2736	1.3185	1.2736	.3672	.3672	-.6328	.6407	-.6593	.6593	-.6407	.6328	-.3672

Influence coefficients — Four continuous spans.

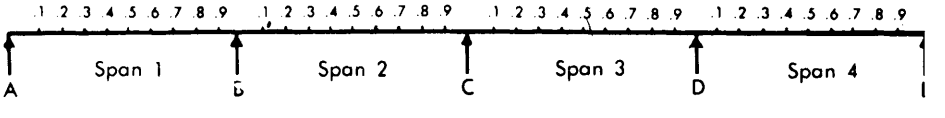
L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.3

TABLE A4.4

MOMENTS/PL

Unit load at		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0.	.0878	.0755	.0633	.0510	.0388	.0266	.0143	.0021	-.0101	-.0224	-.0195	-.0167	-.0139	-.0110	- 0082	-.0053	-.0025	.0004	.0032	.0060
	.2	0	.0757	.1513	.1270	.1026	.0783	.0540	.0296	.0053	-.0191	-.0434	-.0379	-.0324	-.0269	-.0214	-.0159	-.0103	-.0048	.0007	.0062	.0117
	.3	0	.0638	.1277	.1915	.1553	.1191	.0830	.0468	.0106	-.0256	-.0617	-.0539	-.0461	-.0382	-.0304	-.0225	-.0147	-.0069	.0010	.0088	.0166
	.4	0	.0524	.1048	1572	.2096	.1620	.1144	.0668	.0192	-.0284	-.0760	-.0663	-.0567	-.0470	-.0374	-.0277	-.0181	-.0085	.0012	.0108	.0205
	.5	0	.0415	.0830	.1246	.1661	.2076	.1491	.0906	.0322	-.0263	-.0848	-.0740	-.0633	-.0525	-.0417	-.0310	-.0202	-.0094	.0013	.0121	.0229
	.6	0	.0313	.0626	.0940	.1253	.1566	.1879	.1192	.0505	-.0181	-.0868	-.0758	-.0648	-.0538	-.0427	-.0317	-.0207	-.0097	.0014	.0124	.0234
	.7	0	.0219	.0439	.0658	.0877	.1096	.1316	.1535	.0754	-.0027	-.0807	-.0705	-.0602	-.0500	-.0397	-.0295	-.0192	-.0090	.0013	.0115	.0218
	.8	0	.0135	.0270	.0405	.0540	.0674	.0809	.0944	.1079	.0214	-.0651	-.0569	-.0486	-.0403	-.0321	-.0238	-.0155	-.0072	.0010	.0093	.0176
	.9	0	.0061	.0123	.0184	.0245	.0307	.0368	.0429	.0491	.0552	-.0387	-.0338	-.0288	-.0239	-.0190	-.0141	-.0092	-.0043	.0006	.0055	.0104
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0064	-.0128	-.0192	-.0256	-.0320	-.0384	-.0448	-.0512	-.0576	-.0640	.0664	.0568	.0472	.0376	.0280	.0183	.0087	-.0009	-.0105	-.0201
	.2	0	-.0105	-.0209	-.0314	-.0419	-.0523	-.0628	-.0733	-.0838	-.0942	-.1047	.0134	.1314	.1094	.0875	.0655	.0436	.0216	-.0003	-.0223	-.0443
	.3	0	-.0126	-.0251	-.9377	-.0502	-.0628	-.0754	-.0879	-.1005	-.1130	-.1256	-.0220	.0817	.1853	.1490	.1126	.0762	.0399	.0035	-.0328	-.0692
	.4	0	-.0130	-.0260	-.0390	-.0520	-.0650	-.0780	-.0910	-.1040	-.1170	-.1300	-.0422	.0456	.1334	.2213	.1691	.1169	.0647	.0126	-.0396	-.0918
	.5	0	-.0121	-.0243	-.0364	-.0486	-.0607	-.0728	-.0850	-.0971	-.1092	-.1214	-.0501	.0211	.0924	.1636	.2349	.1661	.0974	.0287	-.0401	-.1088
	.6	0	-.0103	-.0206	-.0309	-.0412	-.0515	-.0618	-.0721	-.0824	-.0927	-.1030	-.0484	.0061	.0607	.1153	.1699	.2245	.1391	.0536	-.0318	-.1172
	.7	0	-.0078	-.0157	-.0235	-.0313	-.0392	-.0470	-.0548	-.0627	-.0705	-.0783	-.0399	-.0014	.0371	.0755	.1140	.1525	.1909	.0894	-.0121	-.1137
	.8	0	-.0051	-.0101	-.0152	-.0203	-.0253	-.0304	-.0355	-.0405	-.0456	-.0507	-.0271	-.0036	.0200	.0436	.0671	.0907	.1143	.1378	.0214	-.0951
	.9	0	-.0023	-.0047	-.0070	-.0094	-.0117	-.0141	-.0164	-.0188	-.0211	-.0234	-.0129	-.0024	.0081	.0186	.0292	.0397	.0502	.0607	.0712	-.0582
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0017	.0034	.0051	.0068	.0085	.0102	.0119	.0136	.0153	.0170	.0095	.0019	-.0056	-.0131	-.0206	-.0281	-.0357	-.0432	-.0507	-.0582
	.2	0	.0028	.0055	.0083	.0111	.0139	.0166	.0194	.0222	.0250	.0277	.0154	.0032	-.0091	-.0214	-.0337	-.0459	-.0582	-.0705	-.0828	-.0951
	.3	0	.0033	.0066	.0099	.0133	.0166	.0199	.0232	.0265	.2098	.0331	.0185	.0038	-.0109	-.0256	-.0403	-.0549	-.0696	-.0843	-.0990	-.1137
	.4	0	.0034	.0068	.0103	.0137	.0171	.0205	.0239	.0273	.0308	.0342	.0190	.0039	-.0112	-.0264	-.0415	-.0566	-.0718	-.0869	-.1021	-.1172
	.5	0	.0032	.0063	.0095	.0127	.0159	.0190	.0222	.0254	.0286	.0317	.0177	.0036	-.0104	-.0245	-.0385	-.0526	-.0667	-.0807	-.0948	-.1088
	.6	0	.0027	.0054	.0080	.0107	.0134	.0161	.0187	.0214	.0241	.0268	.0149	.0031	-.0088	-.0207	-.0325	- 0444	-.0562	-.0681	-.0799	-.0918
	.7	0	.0020	.0040	.0061	.0081	.0101	.0121	.0141	.0161	.0182	.0202	.0112	.0023	- 0066	-.0156	-.0245	-.0334	-.0424	-.0513	-.0603	-.0692
	.8	0	.0013	.0026	.0039	.0052	.0065	.0077	.0090	.0103	.0116	.0129	.0072	.0015	-.0042	-.0100	-.0157	-.0214	-.0271	-.0328	-.0385	-.0443
	.9	0	.0006	.0012	.0018	.0023	.0029	.0035	.0041	.0047	.0053	.0059	.0033	.0007	-.0019	-.0045	-.0071	-.0097	-.0123	-.0149	-.0175	-.0201
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 4	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0027	-.0030	-.0017	-.0003	.0010	.0023	.0037	.0050	.0064	.0077	.0091	.0104
	.2	0	-.0005	-.0010	-.0015	-.0020	-.0026	-.0031	-.0036	-.0041	-.0046	-.0051	-.0029	-.0006	.0017	.0040	.0062	.0085	.0108	.0130	.0153	.0176
	.3	0	-.0006	-.0013	-.0019	-.0025	-.0032	-.0038	-.0044	-.0051	-.0057	-.0063	-.0035	-.0007	.0021	.0049	.0077	.0105	.0133	.0161	.0190	.0218
	.4	0	-.0007	-.0014	-.0020	-.0027	-.0034	-.0041	-.0048	-.0055	-.0061	-.0068	-.0038	-.0008	.0022	.0053	.0083	.0113	.0143	.0174	.0204	.0234
	.5	0	-.0007	-.0013	-.0020	-.0027	-.0033	-.0040	-.0047	-.0053	-.0060	-.0067	-.0037	-.0008	.0022	.0051	.0081	.0111	.0140	.0170	.0199	.0229
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0048	-.0054	-.0060	-.0033	-.0007	.0020	.0046	.0073	.0099	.0125	.0152	.0178	.0205
	.7	0	-.0005	-.0010	-.0015	-.0019	-.0024	-.0029	-.0034	-.0039	-.0044	-.0049	-.0027	-.0006	.0016	.0037	.0059	.0080	.0102	.0123	.0145	.0166
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0020	-.0024	-.0027	-.0031	-.0034	-.0019	-.0004	.0011	.0026	.0041	.0057	.0072	.0087	.0102	.0117
	.9	0	-.0002	-.0004	-.0005	-.0007	-.0009	-.0011	-.0012	-.0014	-.0016	-.0018	-.0010	-.0002	.0006	.0014	.0021	.0029	.0037	.0045	.0053	.0060
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0423	.0746	.0969	.1092	.1116	.1039	.0862	.0585	.0340	.0296	.0266	.0503	.0975	.1300	.1430	.1363	.1100	.0652	.0332	.0305
- Area		0	-.0118	-.0235	-.0353	-.0471	-.0589	-.0707	-.0824	-.0942	-.1191	-.1742	-.0858	-.0437	-.0447	-.0507	-.0566	-.0626	-.0685	-.0755	-.1149	-.2032
Total Area		0	.0305	.0511	.0616	.0621	.0527	.0332	.0038	-.0357	-.0851	-.1446	-.0592	.0066	.0528	.0793	.0864	.0737	.0415	-.0103	-.0817	-.1727



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8776	.1427	-.0259	.0073	-.0017	.8776	-.1224	.0203	.0203	-.0056	-.0056	.0017	.0017
	.2	.7566	.2828	-.0502	.0142	-.0034	.7566	-.2434	.0394	.0394	-.0108	-.0108	.0034	.0034
	.3	.6383	.4177	-.0713	.0202	-.0049	.6383	-.3617	.0560	.0560	-.0154	-.0154	.0049	.0049
	.4	.5240	.5449	-.0878	.0249	-.0060	.5240	-.4760	.0689	.0689	-.0189	-.0189	.0060	.0060
	.5	.4152	.6617	-.0980	.0278	-.0067	.4152	-.5848	.0769	.0769	-.0211	-.0211	.0067	.0067
	.6	.3132	.7656	-.1003	.0284	-.0068	.3132	-.6868	.0787	.0787	-.0216	-.0216	.0068	.0068
	.7	.2193	.8539	-.0933	.0264	-.0063	.2193	-.7807	.0732	.0732	-.0201	-.0201	.0063	.0063
	.8	.1349	.9242	-.0753	.0213	-.0051	.1349	-.8651	.0591	.0591	-.0162	-.0162	.0051	.0051
	.9	.0613	.9737	-.0447	.0127	-.0030	.0613	-.9387	.0351	.0351	-.0096	-.0096	.0030	.0030
	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
SPAN 2	.1	-.0640	.9953	.0873	-.0244	.0059	-.0640	-.0640	.9313	-.0687	.0186	.0186	-.0059	-.0059
	.2	-.1047	.9479	.1977	-.0537	.0129	-.1047	-.1047	.8432	-.1568	.0408	.0408	-.0129	-.0129
	.3	-.1256	.8659	.3236	-.0840	.0202	-.1256	-.1256	.7403	-.2597	.0638	.0638	-.0202	-.0202
	.4	-.1300	.7573	.4574	-.1115	.0268	-.1300	-.1300	.6273	-.3727	.0847	.0847	-.0268	-.0268
	.5	-.1214	.6303	.5915	-.1322	.0317	-.1214	-.1214	.5090	-.4910	.1004	.1004	-.0317	-.0317
	.6	-.1030	.4929	.7182	-.1423	.0342	-.1030	-.1030	.3899	-.6101	.1081	.1081	-.0342	-.0342
	.7	-.0783	.3531	.8301	-.1380	.0331	-.0783	-.0783	.2748	-.7252	.1049	.1049	-.0331	-.0331
	.8	-.0507	.2190	.9194	-.1154	.0277	-.0507	-.0507	.1683	-.8317	.0877	.0877	-.0277	-.0277
	.9	-.0234	.0986	.9786	-.0707	.0170	-.0234	-.0234	.0751	-.9249	.0537	.0537	-.0170	-.0170
	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 3	.1	.0170	-.0707	.9786	.0986	-.0234	.0170	.0170	-.0537	-.0537	.9249	-.0751	.0234	.0234
	.2	.0277	-.1154	.9194	.2190	-.0507	.0277	.0277	-.0877	-.0877	.8317	-.1683	.0507	.0507
	.3	.0331	-.1380	.8301	.3531	-.0783	.0331	.0331	-.1049	-.1049	.7252	-.2748	.0783	.0783
	.4	.0342	-.1423	.7182	.4929	-.1030	.0342	.0342	-.1081	-.1081	.6101	-.3899	.1030	.1030
	.5	.0317	-.1322	.5915	.6303	-.1214	.0317	.0317	-.1004	-.1004	.4910	-.5090	.1214	.1214
	.6	.0268	-.1115	.4574	.7573	-.1300	.0268	.0268	-.0847	-.0847	.3727	-.6273	.1300	.1300
	.7	.0202	-.0840	.3236	.8659	-.1256	.0202	.0202	-.0638	-.0638	.2597	-.7403	.1256	.1256
	.8	.0129	-.0537	.1977	.9479	-.1047	.0129	.0129	-.0408	-.0408	.1568	-.8432	.1047	.1047
	.9	.0059	-.0244	.0873	.9953	-.0640	.0059	.0059	-.0186	-.0186	.0687	-.9313	.0640	.0640
	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 4	.1	-.0030	.0127	-.0447	.9737	.0613	-.0030	-.0030	.0096	.0096	-.0351	-.0351	.9387	-.0613
	.2	-.0051	.0213	-.0753	.9242	.1349	-.0051	-.0051	.0162	.0162	-.0591	-.0591	.8651	-.1349
	.3	-.0063	.0264	-.0933	.8539	.2193	-.0063	-.0063	.0201	.0201	-.0732	-.0732	.7807	-.2193
	.4	-.0068	.0284	-.1003	.7656	.3132	-.0068	-.0068	.0216	.0216	-.0787	-.0787	.6868	-.3132
	.5	-.0067	.0278	-.0980	.6617	.4152	-.0067	-.0067	.0211	.0211	-.0769	-.0769	.5848	-.4152
	.6	-.0060	.0249	-.0878	.5449	.5240	-.0060	-.0060	.0189	.0189	-.0689	-.0689	.4760	-.5240
	.7	-.0049	.0202	-.0713	.4177	.6383	-.0049	-.0049	.0154	.0154	-.0560	-.0560	.3617	-.6383
	.8	-.0034	.0142	-.0502	.2828	.7566	-.0034	-.0034	.0108	.0108	-.0394	-.0394	.2434	-.7566
	.9	-.0017	.0073	-.0259	.1427	.8776	-.0017	-.0017	.0056	.0056	-.0203	-.0203	.1224	-.8776
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4731	1.4480	1.5707	1.4480	.4731	.4731	.0296	.7737	.0653	.7854	.0937	.6743	.1177
- Area		-.1177	-.1234	-.1306	-.1234	-.1177	-.1177	-.6743	-.0937	-.7854	-.0653	-.7737	-.0296	-.4731
Total Area		.3554	1.3246	1.4401	1.3246	.3554	.3554	-.6447	.6800	-.7201	.7201	-.6800	.6447	-.3554

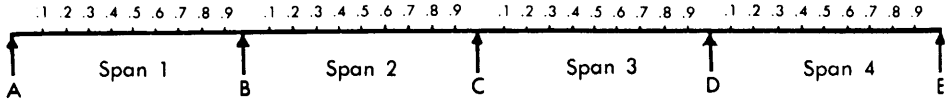
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.4

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0878	.0757	.0635	.0514	.0392	.0271	.0149	.0028	-.0094	-.0215	-.0188	-.0161	-.0133	-.0106	-.0079	-.0051	-.0024	.0003	.0031	.0058
	.2	0	.0758	.1516	.1275	.1033	.0791	.0549	.0307	.0066	-.0176	-.0418	-.0365	-.0312	-.0259	-.0206	-.0152	-.0099	-.0046	.0007	.0060	.0113
	.3	0	.0641	.1281	.1922	.1562	.1203	.0843	.0484	.0125	-.0235	-.0594	-.0519	-.0443	-.0368	-.0292	-.0217	-.0141	-.0066	.0010	.0085	.0161
	.4	0	.0527	.1054	.1581	.2107	.1634	.1161	.0688	.0215	-.0258	-.0731	-.0638	-.0546	-.0453	-.0360	-.0267	-.0174	-.0081	.0012	.0105	.0198
	.5	0	.0418	.0837	.1255	.1674	.2092	.1510	.0929	.0347	-.0235	-.0816	-.0713	-.0609	-.0505	-.0401	-.0298	-.0194	-.0090	.0013	.0117	.0221
	.6	0	.0316	.0633	.0949	.1266	.1582	.1899	.1215	.0531	-.0152	-.0836	-.0730	-.0623	-.0517	-.0411	-.0305	-.0199	-.0093	.0014	.0120	.0226
	.7	0	.0222	.0445	.0667	.0889	.1112	.1334	.1556	.0778	.0001	-.0777	-.0678	-.0580	-.0481	-.0382	-.0284	-.0185	-.0086	.0013	.0111	.0210
	.8	0	.0137	.0275	.0412	.0549	.0687	.0824	.0961	.1099	.0236	-.0627	-.0547	-.0468	-.0388	-.0308	-.0229	-.0149	-.0069	.0010	.0090	.0169
	.9	0	.0063	.0126	.0188	.0251	.0314	.0377	.0439	.0502	.0565	-.0372	-.0325	-.0278	-.0230	-.0183	-.0136	-.0089	-.0041	.0006	.0053	.0101
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0071	-.0141	-.0212	-.0283	-.0353	-.0424	-.0494	-.0565	-.0636	-.0706	.0693	.0593	.0492	.0392	.0292	.0191	.0091	-.0010	-.0110	-.0210
	.2	0	-.0116	-.0231	-.0347	-.0462	-.0578	-.0694	-.0809	-.0925	-.1041	-.1156	.0113	.1382	.1151	.0920	.0689	.0458	.0227	-.0004	-.0235	-.0466
	.3	0	-.0139	-.0277	-.0416	-.0555	-.0693	-.0832	-.0971	-.1110	-.1248	-.1387	-.0271	.0844	.1960	.1575	.1191	.0806	.0422	.0037	-.0347	-.0732
	.4	0	-.0144	-.0287	-.0431	-.0574	-.0718	-.0861	-.1005	-.1149	-.1292	-.1436	-.0490	.0457	.1403	.2349	.1795	.1241	.0687	.0134	-.0420	-.0974
	.5	0	-.0134	-.0268	-.0402	-.0536	-.0670	-.0804	-.0938	-.1072	-.1206	-.1340	-.0572	.0196	.0965	.1733	.2501	.1769	.1037	.0306	-.0426	-.1158
	.6	0	-.0114	-.0227	-.0341	-.0455	-.0569	-.0682	-.0796	-.0910	-.1023	-.1137	-.0548	.0040	.0629	.1218	.1807	.2395	.1484	.0573	-.0338	-.1249
	.7	0	-.0086	-.0173	-.0259	-.0346	-.0432	-.0519	-.0605	-.0692	-.0778	-.0864	-.0449	-.0034	-.0381	.0796	.1211	.1626	.2041	.0956	-.0129	-.1214
	.8	0	-.0056	-.0112	-.0168	-.0224	-.0280	-.0335	-.0391	-.0447	-.0503	-.0559	-.0305	-.0051	-.0204	.0458	.0712	.0966	.1221	.1475	.0229	-.1016
	.9	0	-.0026	-.0052	-.0078	-.0103	-.0129	-.0155	-.0181	-.0207	-.0233	-.0258	-.0145	-.0031	-.0082	.0196	.0309	.0423	.0536	.0650	.0763	-.0623
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0019	.0037	.0056	.0075	.0094	.0112	.0131	.0150	.0168	.0187	.0106	.0025	-.0056	-.0137	-.0218	-.0299	-.0380	-.0461	-.0542	-.0623
	.2	0	.0030	.0061	.0091	.0122	.0152	.0183	.0213	.0244	.0274	.0305	.0173	.0041	-.0091	-.0224	-.0356	-.0488	-.0620	-.0752	-.0884	-.1016
	.3	0	.0036	.0073	.0109	.0146	.0182	.0218	.0255	.0291	.0328	.0364	.0206	.0049	-.0109	-.0267	-.0425	-.0583	-.0740	-.0898	-.1056	-.1214
	.4	0	.0037	.0075	.0112	.0150	.0187	.0225	.0262	.0300	.0337	.0375	.0212	.0050	-.0112	-.0275	-.0437	-.0600	-.0762	-.0925	-.1087	-.1249
	.5	0	.0035	.0069	.0104	.0139	.0174	.0208	.0243	.0278	.0313	.0347	.0197	.0046	-.0104	-.0255	-.0405	-.0556	-.0706	-.0857	-.1008	-.1158
	.6	0	.0029	.0058	.0088	.0117	.0146	.0175	.0205	.0234	.0263	.0292	.0166	.0039	-.0088	-.0214	-.0341	-.0468	-.0594	-.0721	-.0847	-.0974
	.7	0	.0022	.0044	.0066	.0088	.0110	.0132	.0154	.0176	.0198	.0220	.0124	.0029	-.0066	-.0161	-.0256	-.0351	-.0446	-.0542	-.0637	-.0732
	.8	0	.0014	.0028	.0042	.0056	.0070	.0084	.0098	.0112	.0126	.0140	.0079	.0019	-.0042	-.0102	-.0163	-.0224	-.0284	-.0345	-.0405	-.0466
	.9	0	.0006	.0013	.0019	.0025	.0032	.0038	.0044	.0051	.0057	.0063	.0036	.0008	-.0019	-.0046	.0074	-.0101	-.0128	-.0156	-.0183	-.0210
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 4	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0027	-.0030	-.0017	-.0004	.0009	.0022	.0035	.0048	.0061	.0074	.0088	.0101
	.2	0	-.0005	-.0010	-.0015	-.0020	-.0025	-.0030	-.0036	-.0041	-.0046	-.0051	-.0029	-.0007	.0015	.0037	.0059	.0081	.0103	.0125	.0147	.0169
	.3	0	-.0006	-.0013	-.0019	-.0025	-.0032	-.0038	-.0044	-.0050	-.0057	-.0063	-.0036	-.0008	.0019	.0046	.0074	.0101	.0128	.0155	.0183	.0210
	.4	0	-.0007	-.0014	-.0020	-.0027	-.0034	-.0041	-.0047	-.0054	-.0061	-.0068	-.0038	-.0009	.0020	.0050	.0079	.0108	.0138	.0167	.0197	.0226
	.5	0	-.0007	-.0013	-.0020	-.0026	-.0033	-.0040	-.0046	-.0053	-.0060	-.0066	-.0037	-.0009	.0020	.0049	.0077	.0106	.0135	.0163	.0192	.0221
	.6	0	-.0006	-.0012	-.0018	-.0024	-.0030	-.0036	-.0042	-.0047	-.0053	-.0059	-.0034	-.0008	.0018	.0043	.0069	.0095	.0121	.0146	.0172	.0198
	.7	0	-.0005	-.0010	-.0014	-.0019	-.0024	-.0029	-.0034	-.0039	-.0043	-.0048	-.0027	-.0006	.0014	.0035	.0056	.0077	.0098	.0119	.0140	.0161
	.8	0	-.0003	-.0007	-.0010	-.0014	-.0017	-.0020	-.0024	-.0027	-.0030	-.0034	-.0019	-.0005	.0010	.0025	.0040	.0054	.0069	.0084	.0098	.0113
	.9	0	-.0002	-.0003	-.0005	-.0007	-.0009	-.0010	-.0012	-.0014	-.0016	-.0017	-.0010	-.0002	.0005	.0013	.0020	.0028	.0036	.0043	.0051	.0058
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0430	.0761	.0991	.1121	.1152	.1082	.0912	.0643	.0390	.0347	.0306	.0560	.1090	.1465	.1615	.1540	.1240	.0725	.0342	.0294
- Area		0	-.0138	-.0277	-.0415	-.0554	-.0692	-.0831	-.0969	-.1108	-.1363	-.1928	-.0918	-.0429	-.0441	-.0522	-.0604	-.0685	-.0767	-.0859	-.1308	-.2316
Total Area		0	.0292	.0484	.0576	.0567	.0460	.0251	-.0057	-.0465	-.0973	-.1581	-.0612	.0131	.0649	.0943	.1011	.0855	.0473	-.0134	-.0966	-.2022

TABLE A4.5



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{EB}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8785	.1398	-.0233	.0068	-.0017	.8785	-.1215	.0182	.0182	-.0050	-.0050	.0017	.0017
	.2	.7582	.2772	-.0452	.0132	-.0034	.7582	-.2418	.0354	.0354	-.0098	-.0098	.0034	.0034
	.3	.6406	.4097	-.0642	.0187	-.0048	.6406	-.3594	.0503	.0503	-.0139	-.0139	.0048	.0048
	.4	.5269	.5351	-.0791	.0230	-.0059	.5269	-.4731	.0619	.0619	-.0171	-.0171	.0059	.0059
	.5	.4184	.6507	-.0882	.0257	-.0066	.4184	-.5816	.0691	.0691	-.0191	-.0191	.0066	.0066
	.6	.3164	.7544	-.0903	.0263	-.0068	.3164	-.6836	.0708	.0708	-.0196	-.0196	.0068	.0068
	.7	.2223	.8435	-.0840	.0245	-.0063	.2223	-.7777	.0658	.0658	-.0182	-.0182	.0063	.0063
	.8	.1373	.9158	-.0678	.0198	-.0051	.1373	-.8627	.0531	.0531	-.0147	-.0147	.0051	.0051
	.9	.0628	.9687	-.0402	.0117	-.0030	.0628	-.9372	.0315	.0315	-.0087	-.0087	.0030	.0030
SPAN 2	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
	.1	-.0706	1.0037	.0852	-.0246	.0063	-.0706	-.0706	.9331	-.0669	.0182	.0182	-.0063	-.0063
	.2	-.1156	.9616	.1944	-.0544	.0140	-.1156	-.1156	.8460	-.1540	.0404	.0404	-.0140	-.0140
	.3	-.1387	.8824	.3198	-.0854	.0220	-.1387	-.1387	.7437	-.2563	.0634	.0634	-.0220	-.0220
	.4	-.1436	.7744	.4536	-.1136	.0292	-.1436	-.1436	.6308	-.3692	.0844	.0844	-.0292	-.0292
	.5	-.1340	.6461	.5882	-.1351	.0347	-.1340	-.1340	.5121	-.4879	.1004	.1004	-.0347	-.0347
	.6	-.1137	.5062	.7158	-.1458	.0375	-.1137	-.1137	.3925	-.6075	.1083	.1083	-.0375	-.0375
	.7	-.0864	.3632	.8285	-.1416	.0364	-.0864	-.0864	.2767	-.7233	.1052	.1052	-.0364	-.0364
	.8	-.0559	.2254	.9186	-.1186	.0305	-.0559	-.0559	.1695	-.8305	.0881	.0881	-.0305	-.0305
	.9	-.0258	.1015	.9784	-.0727	.0187	-.0258	-.0258	.0757	-.9243	.0540	.0540	-.0187	-.0187
SPAN 3	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
	.1	.0187	-.0727	.9784	.1015	-.0258	.0187	-.0187	-.0540	-.0540	.9243	-.0757	.0258	.0258
	.2	.0305	-.1186	.9186	.2254	-.0559	.0305	.0305	-.0881	-.0881	.8305	-.1695	.0559	.0559
	.3	.0364	-.1416	.8285	.3632	-.0864	.0364	.0364	-.1052	-.1052	.7233	-.2767	.0864	.0864
	.4	.0375	-.1458	.7158	.5062	-.1137	.0375	.0375	-.1083	-.1083	.6075	-.3925	.1137	.1137
	.5	.0347	-.1351	.5882	.6461	-.1340	.0347	.0347	-.1004	-.1004	.4879	-.5121	.1340	.1340
	.6	.0292	-.1136	.4536	.7744	-.1436	.0292	.0292	-.0844	-.0844	.3692	-.6308	.1436	.1436
	.7	.0220	-.0854	.3198	.8824	-.1387	.0220	.0220	-.0634	-.0634	.2563	-.7437	.1387	.1387
	.8	.0140	-.0544	.1944	.9616	-.1156	.0140	.0140	-.0404	-.0404	.1540	-.8460	.1156	.1156
	.9	.0063	-.0246	.0852	1.0037	-.0706	.0063	.0063	-.0182	-.0182	.0669	-.9331	.0706	.0706
SPAN 4	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
	.1	-.0030	.0117	-.0402	.9687	.0628	-.0030	-.0030	.0087	.0087	-.0315	-.0315	.9372	-.0628
	.2	-.0051	.0198	-.0678	.9158	.1373	-.0051	-.0051	.0147	.0147	-.0531	-.0531	.8627	-.1373
	.3	-.0063	.0245	-.0840	.8435	.2223	-.0063	-.0063	.0182	.0182	-.0658	-.0658	.7777	-.2223
	.4	-.0068	.0263	-.0903	.7544	.3164	-.0068	-.0068	.0196	.0196	-.0708	-.0708	.6836	-.3164
	.5	-.0066	.0257	-.0882	.6507	.4184	-.0066	-.0066	.0191	.0191	-.0691	-.0691	.5816	-.4184
	.6	-.0059	.2030	-.0791	.5351	.5269	-.0059	-.0059	.0171	.0171	-.0619	-.0619	.4731	-.5269
	.7	-.0048	.0187	-.0642	.4097	.6406	-.0048	-.0048	.0139	.0139	-.0503	-.0503	.3594	-.6406
	.8	-.0034	.0132	-.0452	.2772	.7582	-.0034	-.0034	.0098	.0098	-.0354	-.0354	.2418	-.7582
	.9	-.0017	.0068	-.0233	.1398	.8785	-.0017	-.0017	.0050	.0050	-.0182	-.0182	.1215	-.8785
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4803	1.5138	1.6765	1.5138	.4803	.4803	.0347	.8210	.0588	.8382	.1004	.6928	.1384
- Area		-.1384	-.1351	-.1176	-.1351	-.1384	-.1384	-.6928	-.1004	-.8382	-.0588	-.8210	-.0347	-.4803
Total Area		.3419	1.3787	1.5589	1.3787	.3419	.3419	-.6581	.7206	-.7794	.7794	-.7206	.6581	-.3419

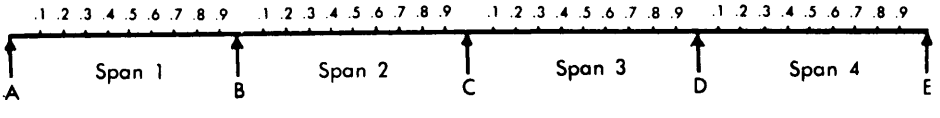
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.5

Unit load at		MOMENTS/PL																				
		SPAN 1											SPAN 2									
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0879	.0758	.0638	.0517	.0396	.0275	.0155	.0034	-.0087	-.0208	-.0181	-.0155	-.0129	-.0102	-.0076	-.0049	-.0023	.0003	.0030	.0056
	.2	0	.0760	.1519	.1279	.1039	.0799	.0558	.0318	.0078	-.0163	-.0403	-.0352	-.0300	-.0249	-.0198	-.0147	-.0096	-.0044	.0007	.0058	.0109
	.3	0	.0643	.1285	.1928	.1571	.1214	.0856	.0499	.0142	-.0215	-.0573	-.0500	-.0427	-.0354	-.0282	-.0209	-.0136	-.0063	.0010	.0082	.0155
	.4	0	.0530	.1059	.1589	.2118	.1648	.1177	.0707	.0236	-.0234	-.0705	-.0615	-.0526	-.0436	-.0347	-.0257	-.0167	-.0078	.0012	.0101	.0191
	.5	0	.0421	.0843	.1264	.1685	.2107	.1528	.0949	.0371	-.0208	-.0787	-.0687	-.0587	-.0487	-.0387	-.0287	-.0187	-.0087	.0013	.0113	.0213
	.6	0	.0319	.0639	.0958	.1278	.1597	.1917	.1236	.0556	-.0125	-.0806	-.0703	-.0601	-.0498	-.0396	-.0294	-.0191	-.0089	.0013	.0116	.0218
	.7	0	.0225	.0450	.0675	.0900	.1126	.1351	.1576	.0801	.0026	-.0749	-.0654	-.0559	-.0463	-.0368	-.0273	-.0178	-.0083	.0012	.0108	.0203
	.8	0	.0140	.0279	.0419	.0558	.0698	.0837	.0977	.1117	.0256	-.0604	-.0527	-.0451	-.0374	-.0297	-.0220	-.0144	-.0067	.0010	.0087	.0164
	.9	0	.0064	.0128	.0192	.0257	.0321	.0385	.0449	.0513	.0577	-.0359	-.0313	-.0268	-.0222	-.0176	-.0131	-.0085	-.0040	.0006	.0052	.0097
SPAN 2	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0077	-.0155	-.0232	-.0310	-.0387	-.0465	-.0542	-.0620	-.0697	-.0774	.0721	.0617	.0512	.0408	.0303	.0199	.0094	-.0010	-.0115	-.0219
	.2	0	-.0127	-.0253	-.0380	-.0507	-.0634	-.0760	-.0887	-.1014	-.1141	-.1267	.0090	.1448	.1206	.0964	.0722	.0480	.0238	-.0004	-.0247	-.0489
	.3	0	-.0152	-.0304	-.0456	-.0608	-.0760	-.0912	-.1064	-.1216	-.1368	-.1520	-.0325	.0870	.2064	.1659	.1254	.0849	.0444	.0039	-.0366	-.0771
	.4	0	-.0157	-.0315	-.0472	-.0629	-.0787	-.0944	-.1102	-.1259	-.1416	-.1574	-.0559	.0455	.1470	.2484	.1898	.1313	.0727	.0141	-.0444	-.1030
	.5	0	-.0147	-.0294	-.0441	-.0587	-.0734	-.0881	-.1028	-.1175	-.1322	-.1469	-.0644	.0180	.1004	.1828	.2652	.1876	.1100	.0324	-.0451	-.1227
	.6	0	-.0125	-.0249	-.0374	-.0498	-.0623	-.0748	-.0872	-.0997	-.1121	-.1246	-.0614	.0018	.0650	.1282	.1914	.2546	.1578	.0610	-.0358	-.1327
	.7	0	-.0095	-.0189	- 0284	-.0379	-.0473	-.0568	-.0663	-.0758	-.0852	-.0947	-.0501	-.0056	.0390	.0836	.1281	.1727	.2173	.1018	-.0136	-.1291
	.8	0	-.0061	-.0122	-.0184	-.0245	-.0306	-.0367	-.0429	-.0490	-.0551	-.0612	-.0339	-.0066	.0207	.0480	.0753	.1026	.1299	.1572	.0245	-.1082
	.9	0	-.0028	-.0057	-.0085	-.0113	-.0141	-.0170	-.0198	-.0226	-.0255	-.0283	-.0161	-.0039	.0083	.0204	.0326	.0448	.0570	.0692	.0814	-.0664
SPAN 3	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0020	.0041	.0061	.0082	.0102	.0123	.0143	.0164	.0184	.0204	.0118	.0031	-.0056	-.0143	-.0230	-.0317	-.0404	-.0491	-.0577	-.0664
	.2	0	.0033	.0067	.0100	.0133	.0166	.0200	.0233	.0266	.0300	.0333	.0191	.0050	-.0092	-.0233	-.0375	-.0516	-.0658	-.0799	-.0941	-.1082
	.3	0	.0040	.0079	.0119	.0159	.0199	.0238	.0278	.0318	.0357	.0397	.0228	.0060	-.0109	-.0278	-.0447	-.0615	-.0784	-.0953	-.1122	-.1291
	.4	0	.0041	.0082	.0122	.0163	.0204	.0245	.0286	.0327	.0367	.0408	.0235	.0061	-.0112	-.0286	-.0459	-.0633	-.0806	-.0980	-.1153	-.1327
	.5	0	.0038	.0076	.0113	.0151	.0189	.0227	.0264	.0302	.0340	.0378	.0217	.0057	-.0104	-.0264	-.0425	-.0585	-.0746	-.0906	-.1067	-.1227
	.6	0	.0032	.0063	.0095	.0127	.0158	.0190	.0222	.0253	.0285	.0317	.0182	.0048	-.0087	-.0222	-.0356	-.0491	-.0626	-.0760	-.0895	-.1030
	.7	0	.0024	.0047	.0071	.0095	.0119	.0142	.0166	.0190	.0214	.0237	.0136	.0036	-.0065	-.0166	-.0267	-.0368	-.0469	-.0570	-.0670	-.0771
	.8	0	.0015	.0030	.0045	.0060	.0075	.0090	.0105	.0120	.0135	.0150	.0086	.0023	-.0041	-.0105	-.0169	-.0233	-.0297	-.0361	-.0425	-.0489
	.9	0	.0007	.0013	.0020	.0027	.0034	.0040	.0047	.0054	.0061	.0067	.0039	.0010	-.0019	-.0047	-.0076	-.0105	-.0133	-.0162	-.0191	-.0219
SPAN 4	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0027	-.0030	-.0017	-.0004	.0008	.0021	.0034	.0046	.0059	.0072	.0084	.0097
	.2	0	-.0005	-.0010	-.0015	-.0020	-.0025	-.0030	-.0035	-.0040	-.0045	-.0050	-.0029	-.0008	.0014	.0035	.0057	.0078	.0099	.0121	.0142	.0164
	.3	0	-.0006	-.0012	-.0019	-.0025	-.0031	-.0037	-.0044	-.0050	-.0056	-.0062	-.0036	-.0009	.0017	.0044	.0070	.0097	.0123	.0150	.0176	.0203
	.4	0	-.0007	-.0013	-.0020	-.0027	-.0034	-.0040	-.0047	-.0054	-.0060	-.0067	-.0039	-.0010	.0018	.0047	.0076	.0104	.0133	.0161	.0190	.0218
	.5	0	-.0007	-.0013	-.0020	-.0026	-.0033	-.0039	-.0046	-.0052	-.0059	-.0066	-.0038	-.0010	.0018	.0046	.0074	.0102	.0129	.0157	.0185	.0213
	.6	0	-.0006	-.0012	-.0018	-.0023	-.0029	-.0035	-.0041	-.0047	-.0053	-.0059	-.0034	-.0009	.0016	.0041	.0066	.0091	.0116	.0141	.0166	.0191
	.7	0	-.0005	-.0010	-.0014	-.0019	-.0024	-.0029	-.0033	-.0038	-.0043	-.0048	-.0027	-.0007	.0013	.0033	.0054	.0074	.0094	.0115	.0135	.0155
	.8	0	-.0003	-.0007	-.0010	-.0013	-.0017	-.0020	-.0023	-.0027	-.0030	-.0034	-.0019	-.0005	.0009	.0024	.0038	.0052	.0066	.0081	.0095	.0109
	.9	0	-.0002	-.0003	-.0005	-.0007	-.0009	-.0010	-.0012	-.0014	-.0016	-.0017	-.0010	-.0003	.0005	.0012	.0019	.0027	.0034	.0042	.0049	.0056
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0438	.0776	.1013	.1151	.1189	.1127	.0965	.0703	.0445	.0403	.0349	.0620	.1211	.1639	.1811	.1728	.1388	.0803	.0354	.0284
- Area		0	-.0161	-.0322	-.0483	-.0644	-.0805	-.0966	-.1127	-.1288	-.1554	-.2135	-.0989	-.0424	- 0435	-.0540	-.0644	-.0749	-.0853	-.0969	-.1476	-.2618
Total Area		0	.0277	.0454	.0530	.0507	.0384	.0161	-.0162	-.0585	-.1109	-.1732	-.0640	.0196	.0776	.1099	.1167	.0979	.0535	-.0166	-.1122	-.2334

TABLE A4.6



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8792	.1373	-.0211	.0063	-.0017	.8792	-.1208	.0165	.0165	-.0046	-.0046	.0017	.0017
	.2	.7597	.2723	-.0409	.0123	-.0034	.7597	-.2403	.0320	.0320	-.0089	-.0089	.0034	.0034
	.3	.6427	.4028	-.0582	.0175	-.0048	.6427	-.3573	.0455	.0455	-.0127	-.0127	.0048	.0048
	.4	.5295	.5265	-.0716	.0215	-.0059	.5295	-.4705	.0560	.0560	-.0156	-.0156	.0059	.0059
	.5	.4213	.6412	-.0799	.0240	-.0066	.4213	-.5787	.0625	.0625	-.0174	-.0174	.0066	.0066
	.6	.3194	.7445	-.0818	.0245	-.0067	.3194	-.6806	.0640	.0640	-.0178	-.0178	.0067	.0067
	.7	.2251	.8344	-.0761	.0228	-.0062	.2251	-.7749	.0595	.0595	-.0166	-.0166	.0062	.0062
	.8	.1396	.9084	-.0614	.0184	-.0050	.1396	-.8604	.0480	.0480	-.0134	-.0134	.0050	.0050
	.9	.0641	.9644	-.0364	.0109	-.0030	.0641	-.9359	.0285	.0285	-.0079	-.0079	.0030	.0030
SPAN 2	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
	.1	-.0774	1.0121	.0832	-.0247	.0067	-.0774	-.0774	.9347	-.0653	.0179	.0179	-.0067	-.0067
	.2	-.1267	.9754	.1913	-.0550	.0150	-.1267	-.1267	.8487	-.1513	.0399	.0399	-.0150	-.0150
	.3	-.1520	.8988	.3162	-.0868	.0237	-.1520	-.1520	.7468	-.2532	.0630	.0630	-.0237	-.0237
	.4	-.1574	.7913	.4502	-.1159	.0317	-.1574	-.1574	.6340	-.3660	.0842	.0842	-.0317	-.0317
	.5	-.1469	.6619	.5852	-.1381	.0378	-.1469	-.1469	.5151	-.4849	.1003	.1003	-.0378	-.0378
	.6	-.1246	.5196	.7135	-.1492	.0408	-.1246	-.1246	.3950	-.6050	.1084	.1084	-.0408	-.0408
	.7	-.0947	.3732	.8270	-.1452	.0397	-.0947	-.0947	.2785	-.7215	.1055	.1055	-.0397	-.0397
	.8	-.0612	.2319	.9178	-.1217	.0333	-.0612	-.0612	.1706	-.8294	.0884	.0884	-.0333	-.0333
	.9	-.0283	.1045	.9781	-.0747	.0204	-.0283	-.0283	.0762	-.9238	.0543	.0543	-.0204	-.0204
SPAN 3	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
	.1	.0204	-.0747	.9781	.1045	-.0283	.0204	.0204	-.0543	-.0543	.9283	-.0762	.0283	.0283
	.2	.0333	-.1217	.9178	.2319	-.0612	.0333	.0333	-.0884	-.0884	.8294	-.1706	.0612	.0612
	.3	.0397	-.1452	.8270	.3732	-.0947	.0397	.0397	-.1055	-.1055	.7215	-.2785	.0947	.0947
	.4	.0408	-.1492	.7135	.5196	-.1246	.0408	.0408	-.1084	-.1084	.6050	-.3950	.1246	.1246
	.5	.0378	-.1381	.5852	.6619	-.1469	.0378	.0378	-.1003	-.1003	.4849	-.5151	.1469	.1469
	.6	.0317	-.1159	.4502	.7913	-.1574	.0317	.0317	-.0842	-.0842	.3660	-.6340	.1574	.1574
	.7	.0237	-.0868	.3162	.8988	-.1520	.0237	.0237	-.0630	-.0630	.2532	-.7468	.1520	.1520
	.8	.0150	-.0550	.1913	.9754	-.1267	.0150	.0150	-.0399	-.0399	.1513	-.8487	.1267	.1267
	.9	.0067	-.0247	.0832	1.0121	-.0774	.0067	.0067	-.0179	-.0179	.0653	-.9347	.0774	.0774
SPAN 4	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
	.1	-.0030	.0109	-.0364	.9644	.0641	-.0030	-.0030	.0079	.0079	-.0285	-.0285	.9359	-.0641
	.2	-.0050	.0184	-.0614	.9084	.1396	-.0050	-.0050	.0134	.0134	-.0480	-.0480	.8604	-.1396
	.3	-.0062	.0228	-.0761	.8344	.2251	-.0062	-.0062	.0166	.0166	-.0595	-.0595	.7749	-.2251
	.4	-.0067	.0245	-.0818	.7445	.3194	-.0067	-.0067	.0178	.0178	-.0640	-.0640	.6806	-.3194
	.5	-.0066	.0240	-.0799	.6412	.4213	-.0066	-.0066	.0174	.0174	-.0625	-.0625	.5787	-.4213
	.6	-.0059	.0215	-.0716	.5265	.5295	-.0059	-.0059	.0156	.0156	-.0560	-.0560	.4705	-.5295
	.7	-.0048	.0175	-.0582	.4028	.6427	-.0048	-.0048	.0127	.0127	-.0455	-.0455	.3573	-.6427
	.8	-.0034	.0123	-.0409	.2723	.7597	-.0034	-.0034	.0089	.0089	-.0320	-.0320	.2403	-.7597
	.9	-.0017	.0063	-.0211	.1373	.8792	-.0017	-.0017	.0046	.0046	-.0165	-.0165	.1208	-.8792
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4878	1.5828	1.7818	1.5828	.4878	.4878	.0403	.8694	.0533	.8909	.1070	.7135	.1610
- Area		-.1610	-.1473	-.1065	-.1473	-.1610	-.1610	-.7135	-.1070	-.8909	-.0533	-.8694	-.0403	-.4878
Total Area		.3268	1.4355	1.6753	1.4355	.3268	.3268	-.6732	.7624	-.8376	.8376	-.7624	.6732	-.3268

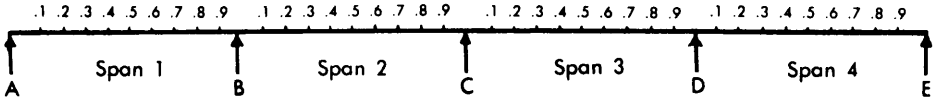
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.6

Unit load at		MOMENTS/PL																				
		SPAN 1										SPAN 2										
		A	.1	.2	.3	.4	.5	.6	.7	.8	.9	B	.1	.2	.3	.4	.5	.6	.7	.8	.9	C
SPAN 1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	.1	0	.0880	.0760	.0640	.0520	.0400	.0280	.0160	.0040	-.0080	-.0200	-.0175	-.0149	-.0124	-.0099	-.0073	-.0048	-.0022	.0003	.0029	.0054
	.2	0	.0761	.1522	.1283	.1044	.0806	.0567	.0328	.0089	-.0150	-.0389	-.0339	-.0290	-.0240	-.0191	-.0142	-.0092	-.0043	.0007	.0056	.0106
	.3	0	.0645	.1289	.1934	.1579	.1224	.0868	.0513	.0158	-.0198	-.0553	-.0483	-.0412	-.0342	-.0272	-.0201	-.0131	-.0061	.0009	.0080	.0150
	.4	0	.0532	.1064	.1596	.2128	.1660	.1192	.0724	.0256	-.0212	-.0680	-.0594	-.0507	-.0421	-.0334	-.0248	-.0161	-.0075	.0012	.0098	.0185
	.5	0	.0424	.0848	.1272	.1696	.2120	.1544	.0968	.0393	-.0183	-.0759	-.0663	-.0566	-.0470	-.0373	-.0277	-.0180	-.0084	.0013	.0110	.0206
	.6	0	.0322	.0644	.0967	.1289	.1611	.1933	.1256	.0578	-.0100	-.0778	-.0679	-.0580	-.0481	-.0382	-.0283	-.0184	-.0086	.0013	.0112	.0211
	.7	0	.0228	.0455	.0683	.0911	.1139	.1366	.1594	.0822	.0049	-.0723	-.0631	-.0539	-.0447	-.0355	-.0263	-.0171	-.0080	.0012	.0104	.0196
	.8	0	.0142	.0283	.0425	.0567	.0708	.0850	.0992	.1133	.0275	-.0583	-.0509	-.0435	-.0361	-.0287	-.0212	-.0138	-.0064	.0010	.0084	.0158
	.9	0	.0065	.0131	.0196	.0262	.0327	.0392	.0458	.0523	.0588	-.0346	-.0302	-.0258	-.0214	-.0170	-.0126	-.0082	-.0038	.0006	.0050	.0094
	B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 2	.1	0	-.0084	-.0169	-.0253	-.0337	-.0422	-.0506	-.0590	-.0675	-.0759	-.0843	.0748	.0640	.0531	.0423	.0314	.0206	.0098	-.0011	-.0119	-.0228
	.2	0	-.0138	-.0276	-.0414	-.0552	-.0690	-.0828	-.0966	-.1104	-.1242	-.1380	.0067	.1513	.1260	.1007	.0754	.0501	.0248	-.0005	-.0258	-.0511
	.3	0	-.0166	-.0331	-.0497	-.0662	-.0828	-.0993	-.1159	-.1324	-.1490	-.1656	-.0381	.0894	.2168	.1743	.1317	.0892	.0466	.0041	-.0385	-.0810
	.4	0	-.0171	-.0343	-.0514	-.0685	-.0857	-.1028	-.1199	-.1371	-.1542	-.1714	-.0631	.0452	.1535	.2618	.2001	.1384	.0766	.0149	-.0468	-.1085
	.5	0	-.0160	-.0320	-.0480	-.0640	-.0799	-.0959	-.1119	-.1279	-.1439	-.1599	-.0719	.0162	.1042	.1922	.2803	.1983	.1163	.0343	-.0476	-.1296
	.6	0	-.0136	-.0271	-.0407	-.0543	-.0678	-.0814	-.0950	-.1085	-.1221	-.1356	-.0681	-.0006	.0669	.1345	.2020	.2695	.1671	.0646	-.0379	-.1403
	.7	0	-.0103	-.0206	-.0309	-.0412	-.0515	-.0618	-.0721	-.0825	-.0928	-.1031	-.0554	-.0078	.0398	.0875	.1351	.1827	.2304	.1080	-.0144	-.1367
	.8	0	-.0067	-.0133	-.0200	-.0266	-.0333	-.0400	-.0466	-.0533	-.0600	-.0666	-.0374	-.0083	.0209	.0501	.0793	.1085	.1377	.1669	.0260	-.1148
	.9	0	-.0031	-.0062	-.0092	-.0123	-.0154	-.0185	-.0215	-.0246	-.0277	-.0308	-.0178	-.0047	.0083	.0213	.0343	.0474	.0604	.0734	.0864	-.0705
	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 3	.1	0	.0022	.0044	.0067	.0089	.0111	.0133	.0155	.0178	.0200	.0222	.0129	.0037	-.0056	-.0149	-.0242	-.0334	-.0427	-.0520	-.0613	-.0705
	.2	0	.0036	.0072	.0108	.0145	.0181	.0217	.0253	.0289	.0325	.0361	.0210	.0060	-.0091	-.0242	-.0393	-.0544	-.0695	-.0846	-.0997	-.1148
	.3	0	.0043	.0086	.0129	.0172	.0215	.0258	.0301	.0344	.0387	.0430	.0251	.0071	-.0109	-.0289	-.0468	-.0648	-.0828	-.1008	-.1187	-.1367
	.4	0	.0044	.0088	.0133	.0177	.0221	.0265	.0309	.0353	.0398	.0442	.0257	.0073	-.0112	-.0296	-.0481	-.0665	-.0850	-.1034	-.1219	-.1403
	.5	0	.0041	.0082	.0122	.0163	.0204	.0245	.0286	.0326	.0367	.0408	.0238	.0067	-.0103	-.0274	-.0444	-.0614	-.0785	-.0955	-.1126	-.1296
	.6	0	.0034	.0068	.0102	.0137	.0171	.0205	.0239	.0273	.0307	.0342	.0199	.0056	-.0086	-.0229	-.0372	-.0514	-.0657	-.0800	-.0942	-.1085
	.7	0	.0026	.0051	.0077	.0102	.0128	.0153	.0179	.0204	.0230	.0255	.0149	.0042	-.0065	-.0171	-.0278	-.0384	-.0491	-.0597	-.0704	-.0810
	.8	0	.0016	.0032	.0048	.0064	.0080	.0097	.0113	.0129	.0145	.0161	.0094	.0026	-.0041	-.0108	-.0175	-.0242	-.0310	-.0377	-.0444	-.0511
	.9	0	.0007	.0014	.0022	.0029	.0036	.0043	.0050	.0057	.0065	.0072	.0042	.0012	-.0018	-.0048	-.0078	-.0108	-.0138	-.0168	-.0198	-.0228
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPAN 4	.1	0	-.0003	-.0006	-.0009	-.0012	-.0015	-.0018	-.0021	-.0024	-.0027	-.0030	-.0017	-.0005	.0007	.0020	.0032	.0045	.0057	.0069	.0082	.0094
	.2	0	-.0005	-.0010	-.0015	-.0020	-.0025	-.0030	-.0035	-.0040	-.0045	-.0050	-.0029	-.0008	.0013	.0033	.0054	.0075	.0096	.0117	.0137	.0158
	.3	0	-.0006	-.0012	-.0019	-.0025	-.0031	-.0037	-.0043	-.0049	-.0056	-.0062	-.0036	-.0010	.0016	.0041	.0067	.0093	.0119	.0145	.0170	.0196
	.4	0	-.0007	-.0013	-.0020	-.0027	-.0033	-.0040	-.0046	-.0053	-.0060	-.0066	-.0039	-.0011	.0017	.0045	.0072	.0100	.0128	.0156	.0183	.0211
	.5	0	-.0006	-.0013	-.0019	-.0026	-.0032	-.0039	-.0045	-.0052	-.0058	-.0065	-.0038	-.0011	.0016	.0044	.0071	.0098	.0125	.0152	.0179	.0206
	.6	0	-.0006	-.0012	-.0017	-.0023	-.0029	-.0035	-.0041	-.0046	-.0052	-.0058	-.0034	-.0010	.0015	.0039	.0063	.0088	.0112	.0136	.0160	.0185
	.7	0	-.0005	-.0009	-.0014	-.0019	-.0024	-.0028	-.0033	-.0038	-.0042	-.0047	-.0027	-.0008	.0012	.0032	.0051	.0071	.0091	.0111	.0130	.0150
	.8	0	-.0003	-.0007	-.0010	-.0013	-.0017	-.0020	-.0023	-.0027	-.0030	-.0033	-.0019	-.0005	.0008	.0022	.0036	.0050	.0064	.0078	.0092	.0106
	.9	0	-.0002	-.0003	-.0005	-.0007	-.0009	-.0010	-.0012	-.0014	-.0015	-.0017	-.0010	-.0003	.0004	.0011	.0019	.0026	.0033	.0040	.0047	.0054
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Area		0	.0446	.0791	.1037	.1182	.1228	.1174	.1019	.0765	.0503	.0462	.0395	.0683	.1336	.1822	.2019	.1927	.1546	.0887	.0367	.0275
- Area		0	-.0186	-.0371	-.0557	-.0742	-.0928	-.1113	-.1299	-.1484	-.1762	-.2362	-.1070	-.0423	-.0430	-.0559	-.0688	-.0816	-.0945	-.1085	-.1653	-.2938
Total Area		0	.0260	.0420	.0480	.0440	.0300	.0061	-.0280	-.0719	-.1259	-.1900	-.0675	.0260	.0906	.1263	.1331	.1111	.0601	-.0198	-.1286	-.2663

TABLE A4.7



Unit load at		REACTIONS/P					SHEARS/P							
		R_A	R_B	R_C	R_D	R_E	V_{AB}	V_{BA}	V_{BC}	V_{CB}	V_{CD}	V_{DC}	V_{DE}	V_{ED}
SPAN 1	A	1.0	0	0	0	0	1.0	0	0	0	0	0	0	0
	.1	.8800	.1350	-.0192	.0059	-.0017	.8800	-.1200	.0150	.0150	-.0042	-.0042	.0017	.0017
	.2	.7611	.2680	-.0372	.0115	-.0033	.7611	-.2389	.0291	.0291	-.0082	-.0082	.0033	.0033
	.3	.6447	.3966	-.0529	.0163	-.0047	.6447	-.3553	.0413	.0413	-.0116	-.0116	.0047	.0047
	.4	.5320	.5189	-.0652	.0201	-.0058	.5320	-.4680	.0509	.0509	-.0143	-.0143	.0058	.0058
	.5	.4241	.6327	-.0727	.0224	-.0065	.4241	-.5759	.0568	.0568	-.0159	-.0159	.0065	.0065
	.6	.3222	.7359	-.0745	.0230	-.0066	.3222	-.6778	.0581	.0581	-.0163	-.0163	.0066	.0066
	.7	.2277	.8263	-.0692	.0213	-.0062	.2277	-.7723	.0541	.0541	-.0152	-.0152	.0062	.0062
	.8	.1417	.9019	-.0558	.0172	-.0050	.1417	-.8583	.0436	.0436	-.0122	-.0122	.0050	.0050
	.9	.0654	.9605	-.0332	.0102	-.0030	.0654	-.9346	.0259	.0259	-.0073	-.0073	.0030	.0030
	B	0	1.0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0	0	0
SPAN 2	.1	-.0843	1.0206	.0814	-.0248	.0072	-.0843	-.0843	.9362	-.0638	.0176	.0176	-.0072	-.0072
	.2	-.1380	.9892	.1884	-.0556	.0161	-.1380	-.1390	.8511	-.1489	.0395	.0395	-.0161	-.0161
	.3	-.1656	.9153	.3129	-.0882	.0255	-.1656	-.1656	.7497	-.2503	.0627	.0627	-.0255	-.0255
	.4	-.1714	.8083	.4469	-.1181	.0342	-.1714	-.1714	.6370	-.3630	.0839	.0839	-.0342	-.0342
	.5	-.1599	.6777	.5824	-.1410	.0408	-.1599	-.1599	-.5178	-.4822	.1002	.1002	-.0408	-.0408
	.6	-.1356	.5329	.7113	-.1527	.0442	-.1356	-.1356	.3972	-.6028	.1085	.1085	-.0442	-.0442
	.7	-.1031	.3833	.8255	-.1488	.0430	-.1031	-.1031	.2802	-.7198	.1057	.1057	-.0430	-.0430
	.8	-.0666	.2383	.9171	-.1249	.0361	-.0666	-.0666	.1717	-.8283	.0888	.0888	-.0361	-.0361
	.9	-.0308	.1074	.9779	-.0768	.0222	-.0308	-.0308	.0766	-.9234	.0546	.0546	-.0222	-.0222
	C	0	0	1.0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0	0	0
SPAN 3	.1	.0222	-.0768	.9779	.1074	-.0308	.0222	.0222	-.0546	-.0546	.9234	-.0766	.0308	.0308
	.2	.0361	-.1249	.9171	.2383	-.0666	.0361	.0361	-.0888	-.0888	.8283	-.1717	.0666	.0666
	.3	.0430	-.1488	.8255	.3833	-.1031	.0430	.0430	-.1057	-.1057	.7198	-.2802	.1031	.1031
	.4	.0442	-.1527	.7113	.5329	-.1356	.0442	.0442	-.1085	-.1085	.6028	-.3972	.1356	.1356
	.5	.0408	-.1410	.5824	.6777	-.1599	.0408	.0408	-.1002	-.1002	.4822	-.5178	.1599	.1599
	.6	.0342	-.1181	.4469	.8083	-.1714	.0342	.0342	-.0839	-.0839	.3630	-.6370	.1714	.1714
	.7	.0255	-.0882	.3129	.9153	-.1656	.0255	.0255	-.0627	-.0672	.2503	-.7497	.1656	.1656
	.8	.0161	-.0556	.1884	.9892	-.1380	.0161	.0161	-.0395	-.0395	.1489	-.8511	.1380	.1380
	.9	.0072	-.0248	.0814	1.0206	-.0843	.0072	.0072	-.0176	-.0176	.0638	-.9362	.0843	.0843
	D	0	0	0	1.0	0	0	0	0	0	0	-1.0 / 0	0 / 1.0	0
SPAN 4	.1	-.0030	.0102	-.0332	.9605	.0654	-.0030	-.0030	.0073	.0073	-.0259	-.0259	.9346	-.0654
	.2	-.0050	.0172	-.0558	.9019	.1417	-.0050	-.0050	.0122	.0122	-.0436	-.0436	.8583	-.1417
	.3	-.0062	.0213	-.0692	.8263	.2277	-.0062	-.0062	.0152	.0152	-.0541	-.0541	.7723	-.2277
	.4	-.0066	.0230	-.0745	.7359	.3222	-.0066	-.0066	.0163	.0163	-.0581	-.0581	.6778	-.3222
	.5	-.0065	.0224	-.0727	.6327	.4241	-.0065	-.0065	.0159	.0159	-.0568	-.0568	.5759	-.4241
	.6	-.0058	.0201	-.0652	.5189	.5320	-.0058	-.0058	.0143	.0143	-.0509	-.0509	.4680	-.5320
	.7	-.0047	.0163	-.0529	.3966	.6447	-.0047	-.0047	.0116	.0116	-.0413	-.0413	.3553	-.6447
	.8	-.0033	.0115	-.0372	.2680	.7611	-.0033	-.0033	.0082	.0082	-.0291	-.0291	.2389	-.7611
	.9	-.0017	.0059	-.0192	.1350	.8800	-.0017	-.0017	.0042	.0042	-.0150	-.0150	.1200	-.8800
	E	0	0	0	0	1.0	0	0	0	0	0	0	0	-1.0
+ Area		.4956	1.6548	1.8868	1.6548	.4956	.4956	.0462	.9187	.0485	.9434	.1136	.7361	.1855
- Area		-.1855	-.1598	-.0970	-.1598	-.1855	-.1855	-.7361	-.1136	-.9434	-.0485	-.9187	-.0462	-.4956
Total Area		.3101	1.4950	1.7898	1.4950	.3101	.3101	-.6899	.8051	-.8949	.8949	-.8051	.6899	-.3101

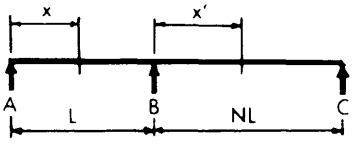
Influence coefficients — Four continuous spans.

L = Length of EXTERIOR spans; length of interior spans = NL.

N=1.7

TABLE 2S

Special points — Two continuous spans.



$k = \frac{x}{L}$

$k' = \frac{x'}{NL}$

MAXIMUM MOMENT ORDINATES — SINGLE CONCENTRATED LOAD.

N	in AB		at B				in BC	
	M/PL	k	M/PL	k	M/PL	k'	M/PL	k'
1.0	.2074	.4323	-.0962	.5774	-.0962	.4226	.2074	.5677
1.1	.2092	.4356	-.0916	.5774	-.1109	.4226	.2262	.5710
1.2	.2109	.4387	-.0875	.5774	-.1260	.4226	.2448	.5740
1.3	.2125	.4414	-.0837	.5774	-.1414	.4226	.2634	.5768
1.4	.2139	.4440	-.0802	.5774	-.1572	.4226	.2817	.5793
1.5	.2152	.4463	-.0770	.5774	-.1733	.4226	.3000	.5816
1.6	.2164	.4484	-.0740	.5774	-.1894	.4226	.3182	.5837
1.7	.2176	.4505	-.0713	.5774	-.2060	.4226	.3364	.5857

MAXIMUM POSITIVE MOMENT UNIFORM LOADING.

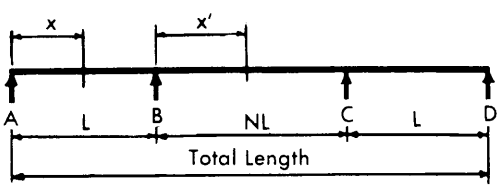
N	in AB		in BC	
	M/wL2	k	M/wL2	k'
1.0	.0957	.4375	.0957	.5625
1.1	.0970	.4405	.1142	.5655
1.2	.0982	.4432	.1342	.5682
1.3	.0993	.4457	.1558	.5707
1.4	.1003	.4479	.1788	.5729
1.5	.1013	.4500	.2032	.5750
1.6	.1021	.4519	.2291	.5769
1.7	.1029	.4537	.2563	.5787

MAXIMUM REACTION ORDINATES

N	at B	
	R/P	k'
1.0	1.0000	
1.1	1.0015	.0308
1.2	1.0057	.0572
1.3	1.0119	.0801
1.4	1.0197	.1003
1.5	1.0289	.1181
1.6	1.0392	.1340
1.7	1.0505	.1482

TABLE 3S

Special points — Three continuous spans.



$k = \frac{x}{L}$

$k' = \frac{x'}{NL}$

MAXIMUM MOMENT ORDINATES — SINGLE CONCENTRATED LOAD.

N	in AB		at B				in BC	
	M/PL	k	M/PL	k	M/PL	k'	M/PL	k'
1.0	.2049	.4277	-.1026	.5774	-.0801	.3837	.1750	.5000
1.1	.2066	.4308	-.0984	.5774	-.0917	.3815	.1894	.5000
1.2	.2081	.4336	-.0945	.5774	-.1036	.3796	.2036	.5000
1.3	.2095	.4362	-.0909	.5774	-.1157	.3777	.2176	.5000
1.4	.2109	.4386	-.0876	.5774	-.1280	.3761	.2315	.5000
1.5	.2121	.4408	-.0846	.5774	-.1405	.3745	.2452	.5000
1.6	.2132	.4428	-.0818	.5774	-.1532	.3730	.2588	.5000
1.7	.2143	.4447	-.0791	.5774	-.1660	.3717	.2724	.5000

MAXIMUM POSITIVE MOMENT UNIFORM LOADING.

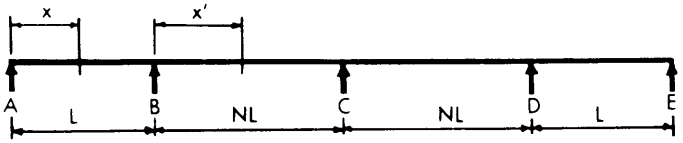
N	in AB		in BC	
	M/wL^2	k	M/wL^2	k'
1.0	.1012	.4500	.0750	.5000
1.1	.1025	.4528	.0885	.5000
1.2	.1036	.4554	.1028	.5000
1.3	.1047	.4576	.1182	.5000
1.4	.1057	.4597	.1344	.5000
1.5	.1065	.4615	.1515	.5000
1.6	.1073	.4632	.1694	.5000
1.7	.1080	.4648	.1882	.5000

MAXIMUM REACTION ORDINATES

N	at B		
	R/p	k	k'
1.0	1.0057	.9428	
1.1	1.0012	.9816	
1.2	1.0000	.9961	
1.3	1.0007		.0170
1.4	1.0030		.0348
1.5	1.0067		.0507
1.6	1.0116		.0649
1.7	1.0175		.0777

TABLE 4S

Special points — Four continuous spans.



$k = \frac{x}{L}$

$k' = \frac{x'}{NL}$

MAXIMUM MOMENT ORDINATES — SINGLE CONCENTRATED LOAD.

N	in AB		at B				in BC		at C	
	M/PL	k	M/PL	k	M/PL	k'	M/PL	k'	M/PL	k'
1.0	.2047	.4274	-.1031	.5774	-.0790	.3806	.1730	.4948	-.0858	.6164
1.1	.2065	.4307	-.0985	.5774	-.0913	.3805	.1887	.4982	-.0938	.6185
1.2	.2082	.4336	-.0944	.5774	-.1040	.3804	.2042	.5013	-.1018	.6205
1.3	.2097	.4365	-.0906	.5774	-.1170	.3803	.2196	.5043	-.1097	.6223
1.4	.2111	.4389	-.0870	.5774	-.1303	.3801	.2349	.5069	-.1176	.6240
1.5	.2124	.4413	-.0838	.5774	-.1439	.3801	.2502	.5093	-.1254	.6255
1.6	.2137	.4435	-.0807	.5774	-.1577	.3799	.2654	.5116	-.1332	.6270
1.7	.2148	.4457	-.0779	.5774	-.1717	.3798	.2805	.5136	-.1409	.6284

MAXIMUM POSITIVE MOMENT UNIFORM LOADING.

N	in AB		in BC	
	M/wL^2	k	M/wL^2	k'
1.0	.0996	.4464	.0805	.5179
1.1	.1025	.4528	.0944	.5164
1.2	.1055	.4594	.1095	.5157
1.3	.1086	.4661	.1258	.5157
1.4	.1119	.4731	.1432	.5160
1.5	.1154	.4803	.1618	.5166
1.6	.1190	.4878	.1815	.5173
1.7	.1228	.4956	.2024	.5181

MAXIMUM REACTION ORDINATES

N	at B		
	R/p	k	k'
1.0	1.0064	.9399	
1.1	1.0016	.9650	
1.2	1.0000	.9949	
1.3	1.0009		.0183
1.4	1.0037		.0384
1.5	1.0082		.0566
1.6	1.0140		.0730
1.7	1.0210		.0873

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